

Exhibit I



CipherBlade

Blockchain Investigation Agency

PRELIMINARY EXPERT REPORT

Matter: Mark Cassidy and all others similarly situated v. Voyager Digital LTD and Voyager Digital LLC

Date: 20211219

This **Preliminary Expert's Report** has been prepared in connection with the matter of *CASSIDY -v- VOYAGER*. It is not intended, and should not be used, for any other purpose. Any opinions expressed by the author herein are presented for this purpose alone, and may be subject to modification or deletion in the light of further information and investigation. These opinions are based solely on reviews of people, documentation, systems and other information as supplied or made available to CipherBlade.

THIS IS A PRELIMINARY REPORT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

I. BACKGROUND AND EXPERIENCE

1. My name is Richard A. Sanders. I am a Co-Founder and Lead Investigator of CipherBlade, a blockchain forensics and cybercrime investigative firm which consults on some of the most renowned blockchain projects, as well as numerous law enforcement and regulatory investigations, and provides advisory services to cryptocurrency exchanges and other organizations. Prior to co-founding CipherBlade, I was in the United States Army, where I attained the rank of a Staff Sergeant and spent 12 years as a forward observer and PSYOP specialist. A copy of my C.V. is annexed as Exhibit A.
2. CipherBlade and the CipherBlade staff have experience in some of the most well-known cryptocurrency investigations, including hacks of prominent individuals and major cryptocurrency exchanges, and provide services which include blockchain forensics, cryptocurrency AML, and cryptocurrency cybercrime investigation. As the blockchain industry gradually matures, there has been a notable increase in our preventative services (compared to reactionary scam/hack investigations) from, for example, investors and firms desiring diligence on blockchain startups.
3. In addition to my duties with CipherBlade, I serve as a volunteer with Crypto Defenders Alliance¹ (“CDA”) where I was selected as one of their four administrators due to my demonstrated expertise as a blockchain forensics expert, cybercrime investigation knowledge, and leadership. CDA is an organization with representatives from nearly all major cryptocurrency exchanges and services, with the purpose of combating laundering of illicitly obtained funds.
4. I have provided solvency, security and AML consulting for cryptocurrency exchanges. My firm is one of the only firms that provides such services. Some of the top exchanges in the industry, such as Coinbase, request my insight into highly complex issues that require niche expertise and experience. Exchanges have relied and continue to rely on CipherBlade’s and my expertise.² In the course of my experience with exchanges, I have become familiar with what industry norms are risk representations, solvency, and transparency.
5. I also serve as a volunteer with the Anti-Human Trafficking Intelligence Initiative³ (ATII) where I provide critically needed blockchain analysis and other insight in some of the most severe crime typologies.

¹ <https://cryptodefendersalliance.com/>

² <https://bitbuy.ca/assets/documents/Bitbuy-Proof-of-Reserve-and-Security-Audit-Report.pdf>

³ <https://followmoneyfightslavery.org/>

6. I routinely consult with and am retained by government agencies for investigations and insight on regulatory issues. I have provided security and compliance advice to numerous companies in the space, and understand that I am seen as a top thought leader in this field. I provide training to law enforcement on tactical site exploitation cryptocurrency considerations, such as identifying what cryptocurrency-related paraphernalia looks like and why it is important. I routinely provide insight to organizations such as the SEC, CFTC, and FinCEN on issues related to digital assets. My experience is digital and operational. This precise hybrid of experience is extremely valuable for my niche. United States Attorneys have leaned on my support for proffer sessions involving digital assets and described my work as essential. I have served as an expert for both Plaintiffs and Defendants in both Civil and Criminal courts and arbitrations.
7. As a result of my involvement in a significant quantity of investigations involving individuals or companies suspected of providing misleading or incorrect information, I have become known as a subject matter expert in strategies that potentially dishonest parties may demonstrate. These often include downplay or nondisclosure of risk, deliberately misleading phrasing, and non-transparency on issues that are readily made transparent via the utilization of blockchain technology.
8. I have been asked to partake in a multitude of podcasts, other speaking engagements, and press interviews from topics ranging from insolvent/AML-lacking exchanges to cryptocurrency security/thefts, including the topic of aggressively-promoted platforms that are not transparent regarding risk⁴ and how to prevent cryptocurrency losses⁵.

II. ASSIGNMENT AND SUBSTANTIATING RECORDS

9. I have been asked by The Moskowitz Law Firm, PLLC on behalf of Plaintiffs to perform an analysis of Voyager, including but not limited to the following:
 - a. An analysis of Voyager trades, relative to other cryptocurrency exchanges, in order to determine how trades executed on Voyager compare to trades executed on other platforms.
 - b. A review of publicly available information regarding Voyager, such as content from Voyager's website and social media platforms.

⁴ <https://youtu.be/0HHZnFBTESw>

⁵ <https://unchainedpodcast.com/how-to-keep-your-crypto-from-being-stolen-via-your-phone/>

- c. Whether or not the activity (with an emphasis on use of customer deposits) or risk represented by Voyager regarding same is proportionate to what would be reasonably expected.
10. In order to execute this assignment, I reviewed relevant documentation, which includes a Complaint and my Letter of Instruction⁶.

III. BACKGROUND ON CRYPTOCURRENCY AND FUNDAMENTAL TECHNICAL INFORMATION

Cryptocurrency and Blockchains

11. Cryptocurrencies are digital representations of value that are secured through cryptography – the encryption and decryption of messages in secret code or cipher. Many of them rely on blockchain technology—a distributed ledger of all transactions that is decentralized and unable to be changed under most circumstances. The most well-known form of cryptocurrency is Bitcoin, but there are a number of cryptocurrencies that have been introduced in the past several years, more than 2,000 by some counts. Cryptocurrency is sent and received from or to so-called “wallets,” which are locations identified by a combination of letters and numbers called a “hash” (e.g., 17XiVVooLcdCUCMf9s4t4jTExacxwFS5uh) that is unique to the holder of the “key” for that wallet address. Wallets are roughly analogous to an email address or bank account. They are a unique and secure identifier that allows for the transmission of cryptocurrency from one user to another.
12. Bitcoins are completely fungible and are not serialized or labeled like, for example, individual dollar bills. As a result, it is not possible to state that any particular Bitcoin is the subject of any specific transaction at any specific time. Instead, a Bitcoin transaction is best understood as a unit of value being transferred from one wallet to another. The blockchain is the record of all such transactions over time. For that reason, as explained more below, to “follow the money” one has to follow the value

⁶ See: Exhibit B - Letter of Instruction

being transmitted from wallet to wallet, rather than attempting to focus on any “specific” Bitcoin.

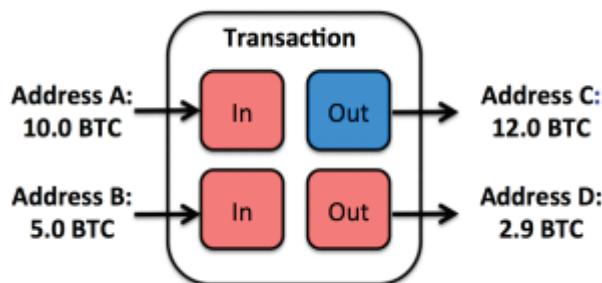
Blockchain Analysis

13. With the rise in popularity of cryptocurrencies, there have inevitably been a number of misuses of cryptocurrency, much of which is via fraud, misappropriation, or laundering. Indeed, as noted above, I and my firm CipherBlade have been retained by private parties and government authorities to assist and investigate in the aftermath of many of these hacks and thefts.
14. Blockchain analysis is a subject which requires highly specialized expertise and tools to perform accurately and effectively. While blockchain data itself is a public record and that data (which is the basis for the blockchain analysis) can be verified by anyone with free and available tools, performing an analysis of transactional flows and tracing destinations of assets is a matter that requires sophisticated tools, and most importantly, experience. In adherence with expert norms, this report identifies the tools and data relevant for the foundation of my opinion, however, it is critical to note that it would be impractical to write out every step of such an analysis, as this would include thousands of potential transactions.
15. Blockchain analysis entails taking information from an immutable public ledger, which, when reviewed by a qualified expert, enables that expert to provide what are in essence fact-based findings which can then be used subsequently, for example in litigation.
16. The process of analysis utilized in this report (especially the blockchain analysis) is the same process utilized in similar investigations that I have conducted in partnership with compliance teams, regulators, and others, spanning numerous jurisdictions. I have been the sole expert responsible for reviewing the blockchain data (which is a matter of public record and is the basis for my analysis) and the graphs in Chainalysis Reactor. Nobody else can access this account, but it is possible to export this graph much like it is possible to export, for example, a PowerPoint presentation. If another

expert wished to review my work, they could do so via utilizing the same blockchain data made available to me to generate this graph, or if they have Chainalysis Reactor access, they may contact me for a copy of the native file.

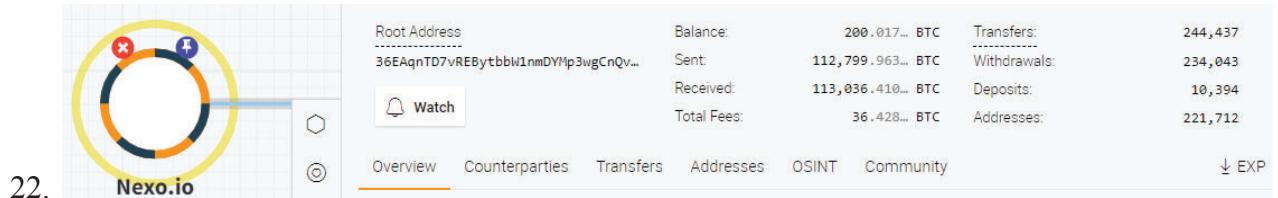
17. I have carried out a proportionate initial assessment of the relevant blockchain data. The nature of blockchain analysis particularly in a case of this nature where the objective is to obtain high-level overview of what happens to customer assets (as opposed to, for example, sorting through thousands of transactions in order to trace specific stolen assets) is relatively lower in time, and bearing in mind these are early-stage findings, as well as that further records could be produced, further analysis is possible and I reserve the right to update this report accordingly.
18. I set out below some remarks on the material that I have relied upon in forming my analysis:
 - a. The nature of blockchain transactions means that all of this information is in the public domain and can be accessed via free tools known as block explorers. For example, to review a Bitcoin transaction, one only needs to visit a website such as Blockchain.info and paste in the Bitcoin transaction.
 - b. The tool I utilize to perform blockchain analysis in this report (for the supported blockchains) is Chainalysis Reactor. Chainalysis Reactor provides a visualization of blockchains; put more plainly, this is providing visualizations of the same data that would be viewable on a block explorer. The core difference between Chainalysis Reactor and a block explorer, insofar as is relevant for the purposes of this Report, is that Chainalysis Reactor has what is known as attribution (labeling of wallet addresses), which will not exist for most addresses in free block explorers.
19. Clustering is the means of grouping 2 or more individual Bitcoin addresses into a group of addresses which are believed to be controlled by the same entity. There are numerous heuristics for clustering, some examples of which would be co-spending and change address analysis. As shown in the below figure, the two addresses on the

left can be presumed to be controlled by the same entity, as they both are inputs in the transaction (rendering it extremely likely that one entity holds the private keys for, and thus owns, both wallets.) There are two outputs, one of which is for 12 BTC -- an amount a user is likely to send another user, where the other output is 2.9 BTC, a less likely number to be purposefully selected⁷. Upon this simplified example, Addresses A, B, and D would be clustered.



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20. Chainalysis Reactor (as well as similar tools) will have a baseline amount of what is known as attribution: the labeling of wallet addresses. Addresses will be unknown/pseudonymous until Chainalysis updates/labels the addresses in their system. A combination of automated analysis and manual investigation is utilized to continually add attribution.
21. Attribution is the “oil” of the blockchain analysis world and constantly sought. Consequently, attribution for well-known services tends to be quite exceptional in Chainalysis Reactor.



While it is true that no services (not even the most voluminous exchanges, such as Coinbase or Binance) will ever have all addresses attributed, services that have a

⁷ Note most often when using this type of heuristic, the amount is likely to be an even less likely manually selected number, such as 2.99757208 due to miner fees, rendering this heuristic quite reliable.

⁸ <https://www.cs.princeton.edu/~arvindn/teaching/spring-2014-privacy-technologies/btctrackr.pdf>

lower amount of addresses attributed oftentimes lack such attribution as a result of the entity not utilizing a compliance tool such as Chainalysis KYT (the compliance equivalent of Chainalysis Reactor), and/or not submitting address data to such providers. Voyager currently has 1 Bitcoin addresses attributed in Chainalysis Reactor, a figure far lower than I expected. Voyager competitor Celsius has 277,287 attributed addresses for Bitcoin in Chainalysis Reactor; while also not high, I'd expect Voyager (a service with more aggressive marketing) to have more address attribution. I came to find out that Voyager's lack of attribution may at least partially have to do with how Voyager processes customer deposits and withdrawals, which is distinctly different (perhaps deliberately) from their competitors and obfuscates potential attribution efforts.

23. Further, attribution for Voyager wallet addresses for other blockchains was scarce and in some cases non-existent. While attribution for some more less-utilized assets (say, LTC or the ERC-20 tokens) may often have gaps, for attribution on widely-utilized assets (such as Ethereum) to be lacking immediately stood out to me, and made necessary my efforts to perform manual attribution for Voyager addresses.
24. Consequently, in order to determine what Voyager does with customer deposits, how Voyager processes customer withdrawals, and to the extent possible⁹ potentially identify what Voyager does with customer assets, I made numerous deposits and withdrawals of varied cryptocurrencies with an account on Voyager. This enabled me to obtain blockchain data to analyze for a better data set and more recent history.
25. In order to perform this analysis, I utilized Chainalysis Reactor. Available as supporting records are full resolution graphs and native .grf files for any and all blockchain analysis cited in this report, as well as Voyager account history evidencing the transactions relied upon in order to supplement any pre-existing attribution in Chainalysis Reactor.

⁹ Once cryptocurrency is traced to an exchange/service, analysis stops. This is because records from the service would need to be produced in order to continue analysis. This is functionally equivalent to determining what happened to a \$100 bill once an individual brings it to the bank: you may see them bring it to the bank, but they deposit it for an IOU and lose custody of it: you would need the individual's bank records to determine what happened with the value of that asset.

IV. SUMMARY OF OPINIONS

“We will lend, sell, pledge, rehypothecate, assign, invest, use, commingle or otherwise dispose of funds and cryptocurrency assets to counterparties, and we will use our commercial best efforts to prevent losses.”¹⁰

“In consideration for the interest earned on your account, you grant the right, subject to applicable law, without further notice to you, to hold the cryptocurrency held in your account in the firm name or in another name, and to pledge, repledge, hypothecate, rehypothecate, sell, lend, or otherwise transfer or use any amount of such cryptocurrency, separately or together with other property, with all attendant rights of ownership, and for any period of time and without retaining a like amount of cryptocurrency, and to use or invest such cryptocurrency at its own risk.”

26. Voyager does not accurately convey the risk associated with the interest-bearing offering (the “Voyager Interest Program”) of their service.
 - a. The general risk disclosures included in Voyager’s consumer-facing materials is insufficient to allow consumers to make an informed decision that reflects their risk appetite. There is an immense range of risk/reward (from relatively low risk to extremely high-risk) that is possible depending upon what, exactly, Voyager does with customer deposits.
 - b. Voyager publicly provides no meaningful specifics about how customer assets are utilized. Voyager offers interest rates that exceed competitors such as Celsius¹¹ and BlockFi, companies that also suggest they earn interest in a similar way.
 - c. Celsius has been audited¹². Similar companies that were not audited are undoubtedly immediately able to be considered high-risk for consumers. For example, Cred, a company similar to Voyager and Celsius (which also lacked transparency) elected to take high-risk investments that did not end happily¹³.
27. Voyager is not transparent.

¹⁰ <https://rewards.investvoyager.com/interest/>

¹¹ While true Celsius and Voyager are partnered in some capacity, they are still competitors in other capacities; namely, customers depositing assets.

¹²

<https://www.prnewswire.com/news-releases/celsius-network-partners-with-chainalysis-to-confirm-audit-of-3-31-billion-in-assets-301189705.html>

¹³ <https://guidehouse.com/insights/financial-crimes/2021/cryptocurrency-lending-lessons-cred-bankruptcy>

- a. As described in the preceding paragraph regarding the Voyager Interest Program, it is impossible for consumers to make an informed decision regarding whether to deposit funds to Voyager or not. Further, even if an individual opts out of the Voyager Interest Program, nothing evidences customer funds are not rehypothecated, rendering Voyager customers susceptible to the risk of this rehypothecation whether or not they have the risk appetite and/or desire to sign up for such activity.
- b. Voyager's responses to public inquiries are unresponsive. For example, I doubt that what customers intended when asked "is Voyager regulated?"¹⁴ (if that was, indeed, what was asked multiple times, and Voyager didn't basket broader questions into this FAQ) is whether or not Voyager is subject to FinCEN regulation. Voyager is registered and operates within and solicits the business of customers within the applicable jurisdiction. Said differently, Voyager being regulated by FinCEN is no different from stating I breathe air. Notably absent from Voyager's FAQ (or anywhere else for that matter) is any information evidencing Voyager's efforts to be a compliant organization: as some examples, Voyager is one of the very few companies of their scale not represented in Crypto Defender's Alliance, nor am I aware of any transaction analysis tool Voyager is utilizing¹⁵.
- c. Voyager has provided no verification they are solvent nor any substantive information about how they utilize customer funds (which increases the risk of insolvency immensely.) It is possible for Voyager to verify they are solvent¹⁶. While Voyager might suggest that they do not want to reveal particulars about what they do with customer funds as to protect trade secrets, at a minimum, they could easily retain a reputable third party to perform an (ideally recurring) audit.

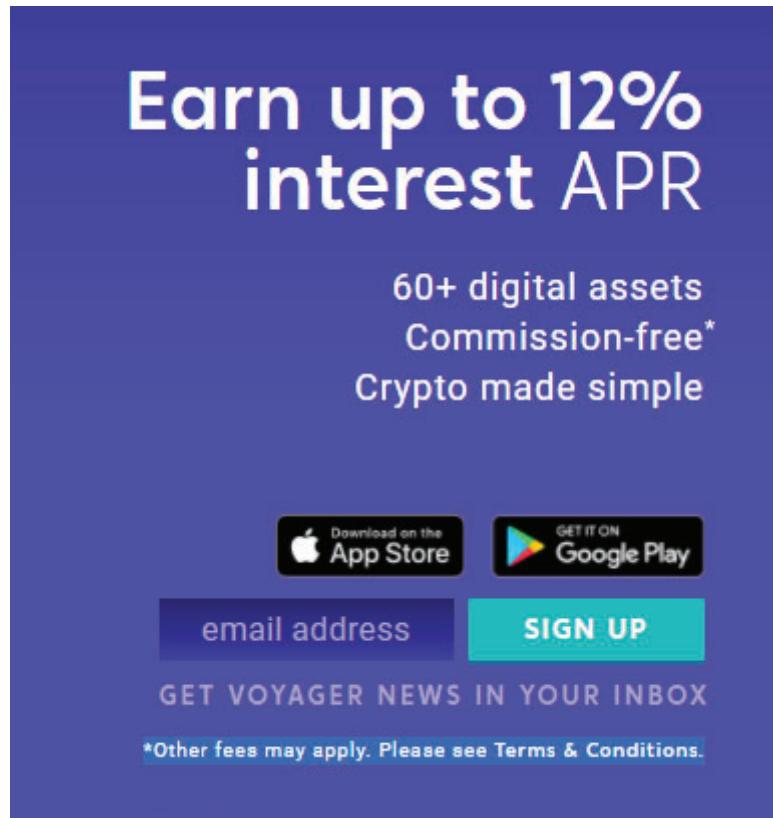
28. Voyager engages in extremely aggressive promotional activities, often via influencers that receive financial incentive, that target primarily new or less knowledgeable cryptocurrency users. An additional risk Voyager and Voyager customers face, in light

¹⁴ <https://support.investvoyager.com/support/solutions/articles/43000458812-is-voyager-regulated>

¹⁵ To be clear, it is distinctly possible, even probable, that Voyager has acquired a blockchain analysis tool -- I just typically know which tools most companies use as I have interacted with their compliance/investigations team in the course of my duties. Said differently, the fact I have not experienced this with Voyager is, from experience, likely due to improper use of a blockchain analysis tool/inadequately trained staff.

¹⁶ <https://www.kraken.com/en-us/proof-of-reserves-audit>

of such activity, is regulatory scrutiny, whether for market manipulation or potentially Securities Act 17(b)¹⁷ violations depending upon particulars.



“Voyager works to obtain the best execution available in the marketplace for our clients. There is no set price for a market order. Best execution is a concept combining the evaluation of multiple factors, including opportunity to obtain a better price than what is currently quoted, the speed of execution, size of trade, settlement period and the likelihood the trade will be executed.”¹⁸

29. Voyager is deliberately misleading, and often refuses to substantiate information that is essential for a consumer to make an informed decision. As one prominent example, Voyager strongly advertises “Commission-free” trading on their landing page, but no such fees are ever clearly outlined.
 - a. In the absence of any specificity regarding “the marketplace”, it is impossible for a consumer -- or anyone for that matter -- to determine which

¹⁷ <https://www.expertservices.com/insight/sec-penalizes-celebrities-for-violating-the-securities-act/>

¹⁸

<https://support.investvoyager.com/support/solutions/articles/43000458765-how-is-the-price-for-market-orders-determined->

“marketplaces” (exchanges?) Voyager is determining to provide the “best execution.”

- b. There would, indeed, presumably be a set price for a market order, which would be derived from an aggregate of the exchanges Voyager is sourcing liquidity from. In the simplest terms possible, it is entirely a black box as to what Voyager is doing with orders purportedly directed to their Smart Order Router, where (which exchanges) the Voyager Pricing Engine “calculates the fair market price” from, and how the Proprietary Fills Algorithm functions -- and in the absence of such information, as well as demonstrable discrepancies between what Voyager says should happen and what happens, these systems are either improperly configured, or to varying degrees may not even exist or exist as described by Voyager.
- c. Phrasing such as “evaluation of multiple factors” is, per my experience regarding *all* companies that were suspected of, and subsequently confirmed to be, misleading consumers, extremely concerning. The utilization of seemingly-technical jargon, and/or otherwise unspecified yet critical information, often result in tragedy for consumers¹⁹. In the absence of any information whatsoever regarding how Voyager is processing customer orders, it is functionally impossible to verify that Voyager is even performing the steps described on their own FAQ. Voyager, in essence, is expecting the same degree of trust from users that Bitconnect expected from their users regarding a “trading bot” that turned out to never exist.
- d. Not even the fine print of Voyager’s customer agreements show that they are in fact not 100% commission free. Voyager is undoubtedly profiting off of customers utilizing the trade functionality of the Voyager platform, and is irrefutably *not* providing best execution. Voyager can not both claim to provide best execution *and* be commission-free when it is easily evidenced that numerous other exchanges provide better rates.

30. The exchange rates provided by Voyager are consistently worse than the rates provided by cryptocurrency exchanges -- regardless of whether the exchange is centralized or decentralized, US-based or not US-based, etc. For Voyager to suggest they are providing any form of “best execution” across the marketplace is demonstrably false.

¹⁹ <https://www.makeuseof.com/the-rise-and-fall-of-bitconnect-an-internet-famous-ponzi-scheme/>

- a. What makes Voyager's representations even more egregious is that, in the course of my analysis, I had performed extensive cryptocurrency deposits and withdrawals in order to discover cryptocurrency wallet addresses that Voyager utilizes for customer funds. Customer assets are sent to/from either Binance or HTC Trading wallets. Comparing exchange rates on Voyager to those on Binance resulted in Binance having better exchange rates on *every* occasion. Said differently, the *one* exchange that it is possible to assess Voyager would be including across their marketplace comparison (and thus should reflect the same price in Voyager app) provided a better deal than Voyager.
31. Voyager does not publicly disclose any liquidity or trading relationship with Binance, an exchange restricted to US residents. The absence of any information regarding the nature of Voyager routinely sending funds to what I presume are Binance account(s) they control is immensely concerning. While possible a company like Voyager could onboard to an exchange like Binance with a corporate account in a legitimate way, Voyager customers would assess a different level of risk if they knew their assets were diverted to an solvency-audited US-based exchange and an exchange that has not been hacked, such as Kraken, as opposed to a foreign exchange with more known²⁰ AML issues and hacks. In my estimation, if Voyager customers were polled on-the-spot and told their assets were diverted to Binance (let alone what the assets are utilized for afterwards), many would find this unsettling and many may not have utilized Voyager if they had this knowledge.

V. BLOCKCHAIN ANALYSIS

32. In order to perform this analysis, I utilized Chainalysis Reactor. Available as supporting records are full resolution graphs and native .grf files for any and all blockchain analysis cited in this report.
33. Chainalysis Reactor is considered to be the industry standard for blockchain analysis for many reasons, the most significant one being attribution, which is the labeling of wallet addresses. Chainalysis has better attribution, by a multiplier, than any of their competitors. Said differently, of any blockchain analysis tool provider, the one most

²⁰

<https://www.bloomberg.com/news/articles/2021-05-13/binance-probed-by-u-s-as-money-laundering-tax-sleuths-bore-in>

likely to have pre-existing wallet address identification for Voyager wallets would be Chainalysis.



celsius.network

- other Celsius.network + (CETH)
- other Celsius.network + (COMP)
- other Celsius.network + (CRO)
- other Celsius.network + (CSAI)
- other Celsius.network + (CUSDC)
- other Celsius.network + (CVC)
- other Celsius.network + (CZRX)
- other Celsius.network + (DAI)
- other Celsius.network + (DASH)



voyager

- exchange InvestVoyager.com + (BTC)
- exchange InvestVoyager.com + (ETH)
- exchange InvestVoyager.com + (LTC)
- exchange InvestVoyager.com + (XRP)

34. Upon a search of Celsius, a core Voyager competitor, their addresses are well-attributed; note the requirement to scroll down to see the full depth of cryptocurrencies that Celsius wallets are attributed in. Upon a search for Voyager, only four cryptocurrencies are attributed, and of those, the attribution is partial.
35. While a service not being attributed in Chainalysis does not confirm the service is suspicious, it is generally typical for compliant and responsibly-managed services to have attribution in a tool like Chainalysis Reactor for several reasons:
 - a. Companies will sometimes provide their wallet addresses to companies like Chainalysis in order to be helpful to law enforcement and/or decrease the

overhead associated with false positives and inquiries that would otherwise stem from a lack of attributed wallet addresses.

- b. It is expected that companies such as Voyager have effective compliance program.
 - i. A preliminary review of Voyager's LinkedIn page does not suggest they have sufficient compliance staff²¹. The few employees I do see with roles that would be applicable do not appear to have relevant industry experience nor certifications in any blockchain analysis tool.
 1. I note that Muhammad Darr obtained a certification from Blockchain Intelligence Group around the time he joined Voyager²². BIG would not be a sufficient tool for a firm such as Voyager to effectively be compliant. Mr. Darr would know this, as his time at Gemini (which utilizes Chainalysis) would easily evidence the significant difference in capabilities between Chainalysis and BIG.
 - ii. Voyager is one of the few larger western-focused services not represented in Crypto Defender's Alliance²³, which is free to join and significantly bolsters AML efficiency.
 - iii. Most importantly, in order to have an effective compliance program, a blockchain business *must* have a transaction monitoring/analysis tool, such as one from Chainalysis, Elliptic, or Crystal. Without such a tool, it is impossible to have the baseline information needed to assess AML risk; or in simpler terms, it is impossible to be compliant without such a tool. These tools range significantly in terms of cost, however, a company the scale of Voyager can undeniably afford the most potent tool (Chainalysis KYT).
 1. I further note that it is possible, even probable, Voyager does, indeed, have a transaction analysis tool. However, it is also common that companies will simply acquire such a tool for "compliance theatre". The mere acquisition of such a tool does not make a company any more compliant than being in the garage makes a person a car.

²¹ <https://www.linkedin.com/company/investvoyager/people/?keywords=compliance>

²² <https://www.linkedin.com/in/muhammad-darr-cams-cci-79912315b/>

²³ <https://cryptodefendersalliance.com/>

- iv. The very nature of a blockchain startup utilizing a blockchain analysis tool would typically entail their wallets being attributed in the tool provider's system. More simply: if Voyager utilized Chainalysis KYT, it is likely that Chainalysis would have Voyager wallets attributed.
- c. Besides companies voluntarily providing wallet address attribution to firms such as Chainalysis (or being themselves customers), another way addresses sometimes are attributed is via utilization. For example, while Coinbase does not utilize Chainalysis (as they have their own transaction analysis tool from a company they acquired²⁴), Chainalysis has extremely strong Coinbase attribution.
- d. I note it is my experience that blockchain companies that are not easily evidenced as compliant often do not desire for their wallet addresses to be attributed out of concern of wrong-doing²⁵.

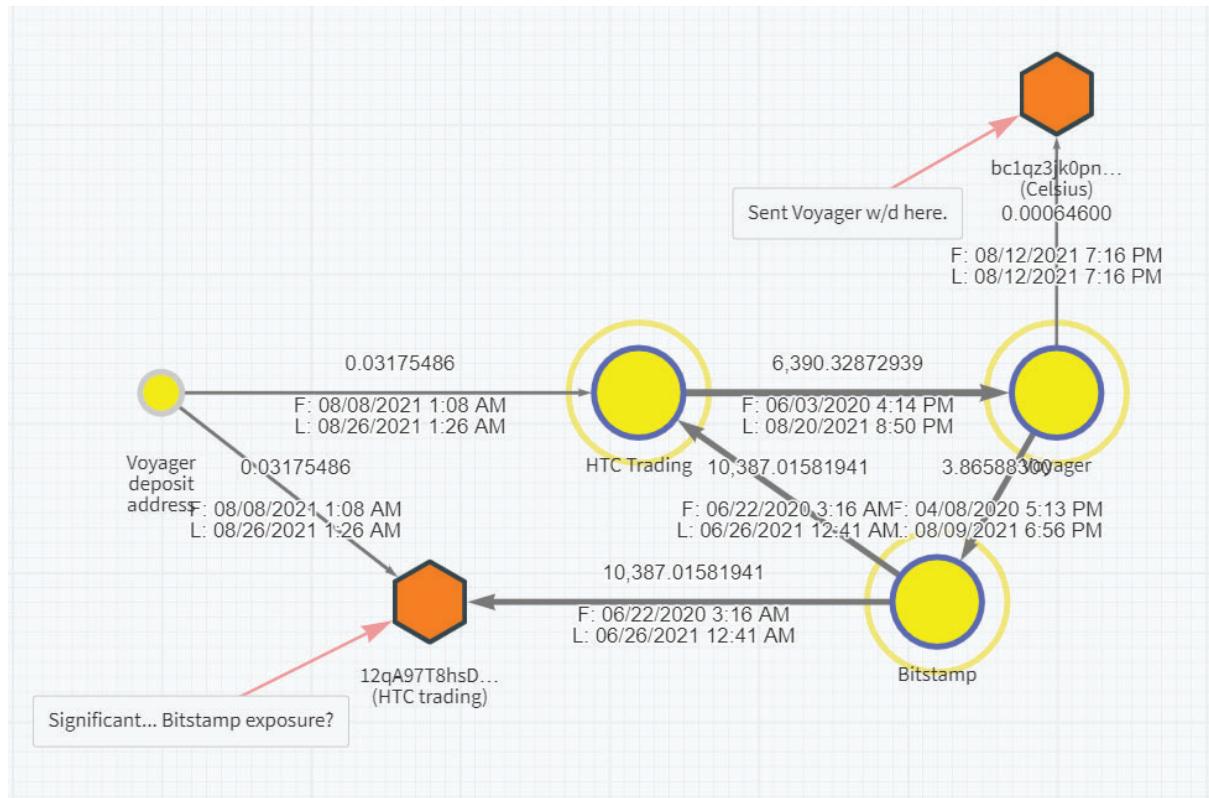
36. Consequently, in order to determine what Voyager does with customer deposits, how Voyager processes customer withdrawals, and potentially identify some exchanges Voyager may have included in their alleged marketplace comparisons, I made numerous deposits and withdrawals of varied cryptocurrencies with an account on Voyager. Full resolution copies of all of these graphs are attached as Exhibit D.

²⁴

<https://cointelegraph.com/news/coinbase-bought-neutrino-for-135-million-acquisition-contract-allegedly-shows>

²⁵

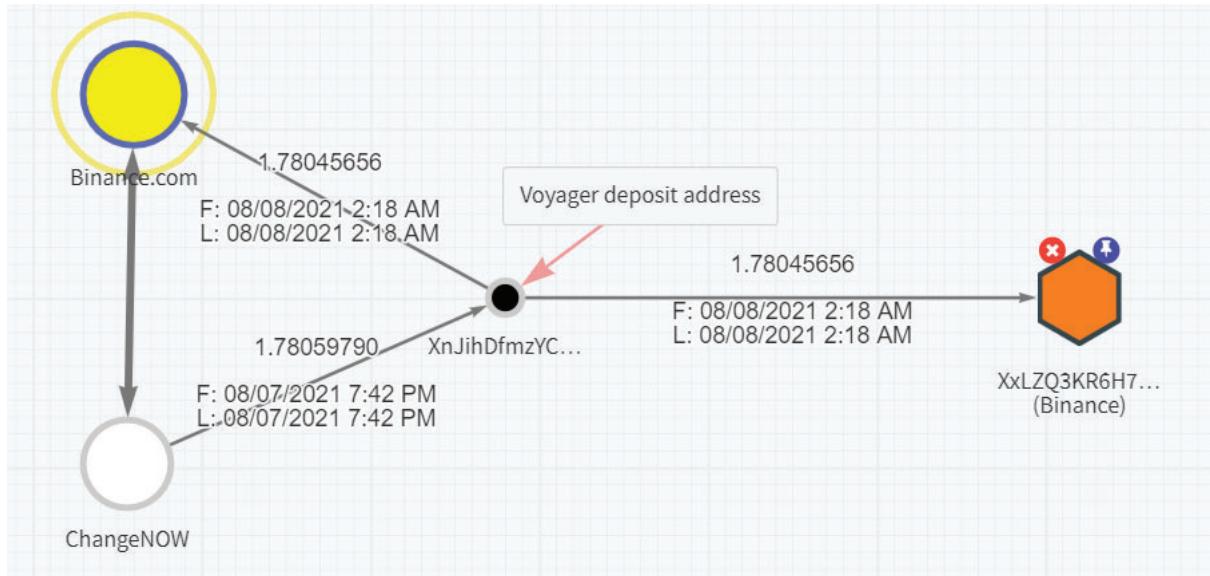
<https://www.coindesk.com/policy/2021/03/04/blockchain-sleuth-says-okex-huobi-stonewalled-him-in-child-porn-investigation/>



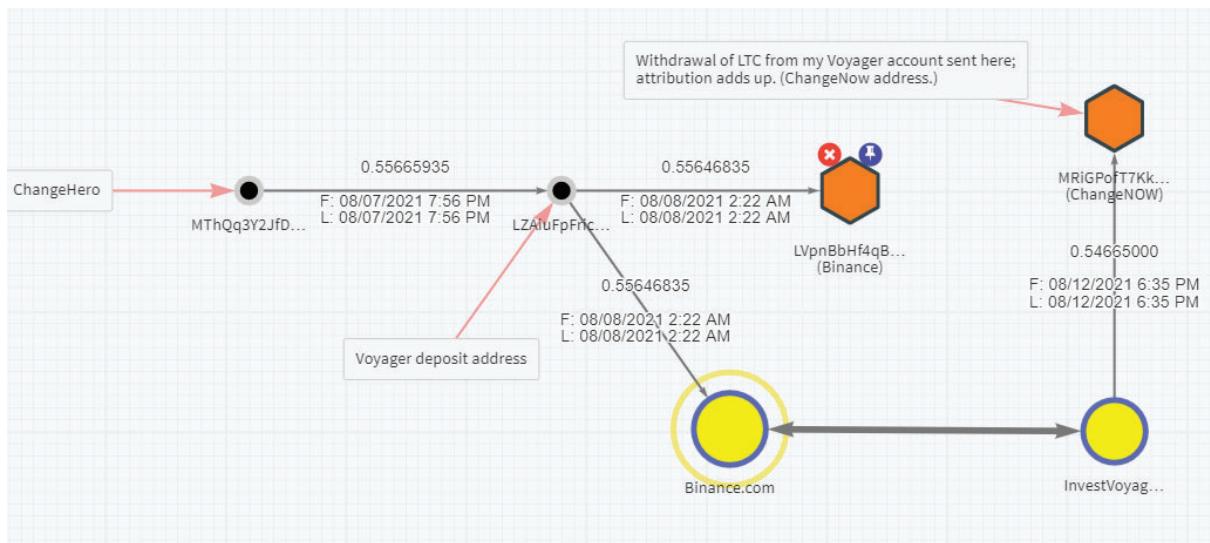
37. As shown above, my Bitcoin deposit to Voyager was sent to HTC Trading. Voyager “wholly owns” HTC Trading²⁶. It is impossible to determine exactly what Voyager and/or HTC Trading utilized my BTC for after this deposit.

38. Also shown above, when I initiated a withdrawal transaction from Voyager, it was processed from attributed Voyager BTC wallets.

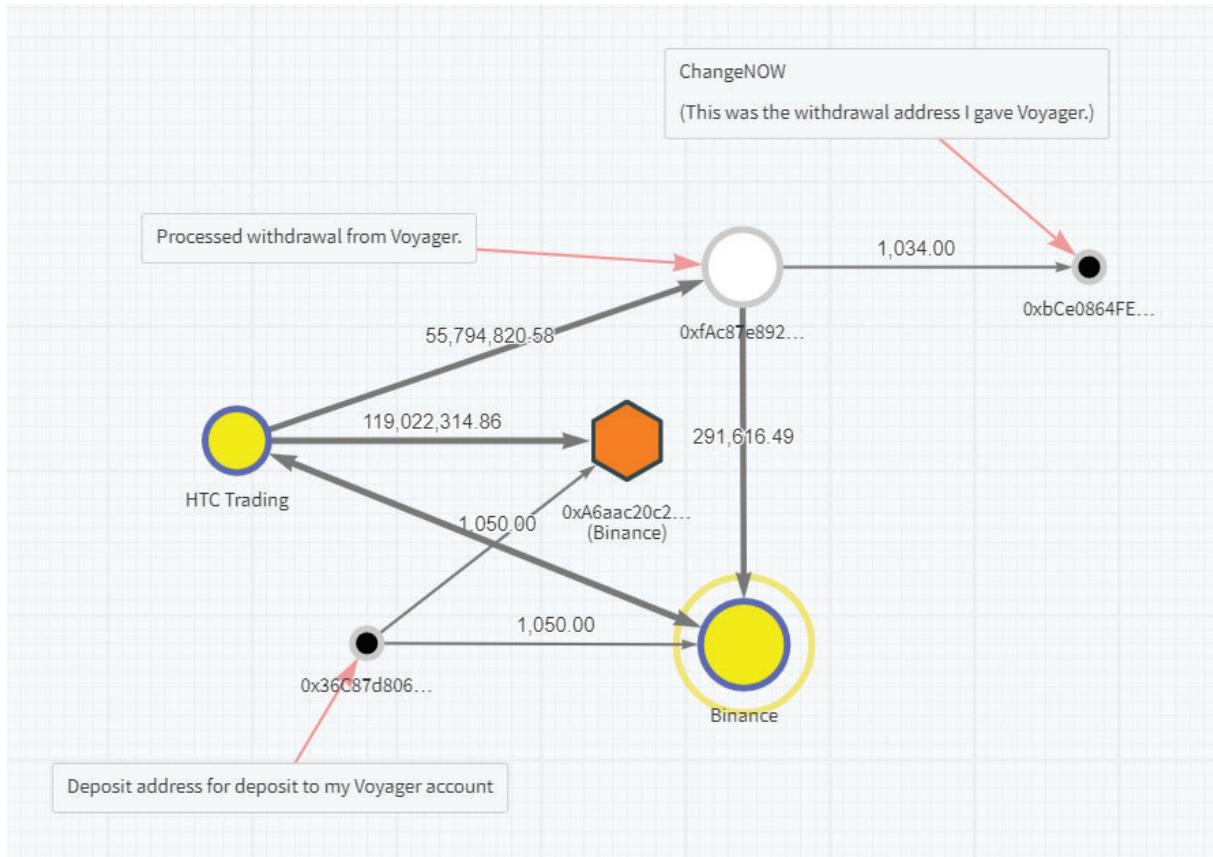
²⁶ <https://sec.report/otc/financial-report/285133>



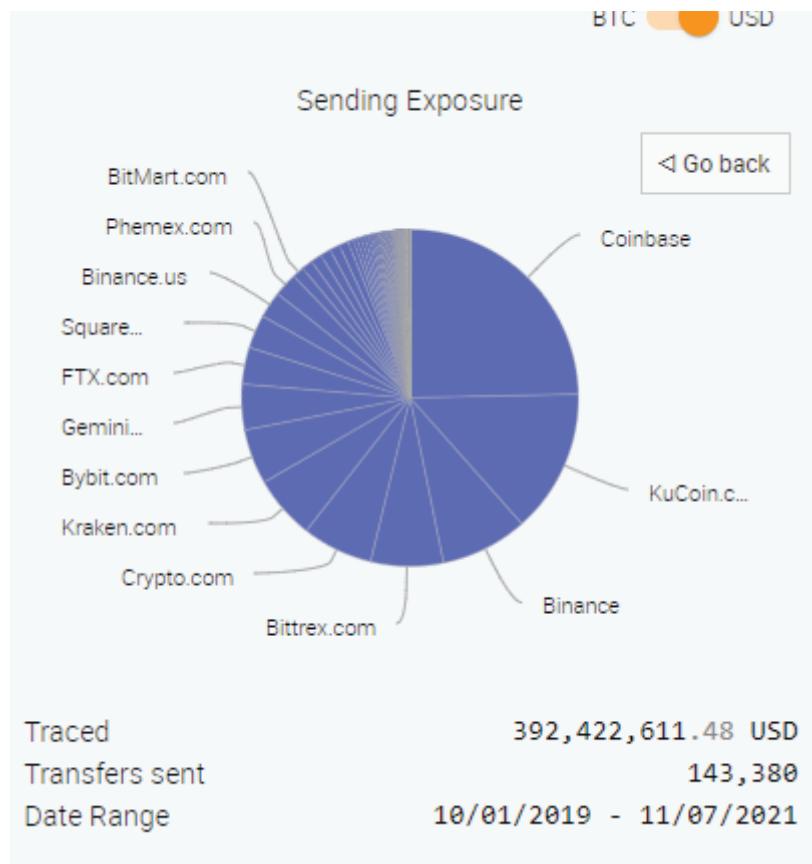
39. In the above example, when I made an XRP deposit to Voyager, it was sent to a Binance deposit address. It is impossible to know what Voyager did with my XRP after this deposit without records from the associated Binance account.



40. In the above example, when making a LTC deposit to Voyager, funds are promptly “swept” to Binance. When requesting a LTC withdrawal from the Voyager account, the withdrawal is processed from Voyager wallets.



41. In the above example, the USDC deposit I made to Voyager is promptly swept to Binance. The withdrawal is processed from an unattributed address that belongs to either HTC Trading or Voyager, and unsurprisingly evidences further heavy utilization of Binance as the sole exchange with any observable and significant direct connection.
42. Analysis of Voyager across other assets presented similar findings: funds would be swept to or withdrawn from either a Binance or HTC trading address or an unattributed address with a strong relationship to those two entities. It would be disproportionate/repetitive to detail each asset, however, graphs for each asset are attached to this report.



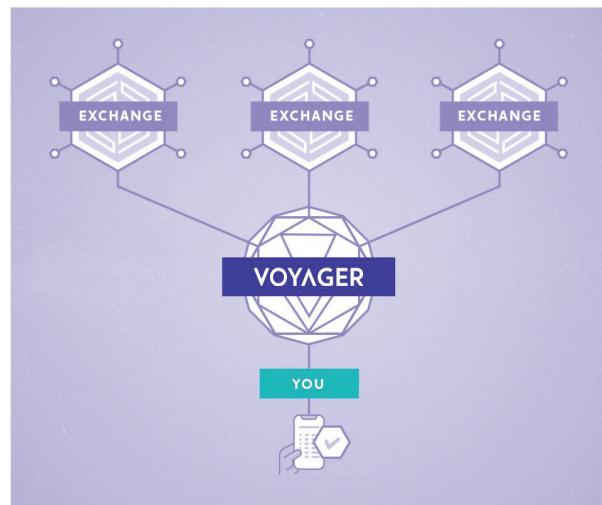
43. While proportionality and focus at this time preclude me from providing a deeper review into Voyager's AML practices, observations regarding Voyager addresses (and the nature of the entities they send and receive cryptocurrencies from) while conducting my attribution work did prompt concerns. As just one example, Voyager's known Bitcoin address sends funds to exchanges that are not US-based or even preclude US residents from signing up (KuCoin, Binance, Bybit, and FTX would all be strong examples.) In essence, where Voyager customer's withdraw funds to does not reflect what I'd expect a US-based company soliciting US-based users²⁷ to send funds to. In my experience, when I see sending exposure²⁸ that does not reflect the targeted demographic, the company attributed to the wallet(s) has an (often intentional) porous approach to compliance; said differently, I find it very unlikely that the quantity of Source of Wealth inquiries Voyager sent to customers due to these observations (assets going to US-restricted exchanges) would match the statistics shown above.

²⁷ <https://www.investvoyager.com/blog/where-is-voyager-available/>

²⁸ Exhibit C - Cluster _exposure _of _Voyager_BTC

44. My blockchain analysis did *not* enable me to determine anything insofar as Voyager's purported trade processing practices. This is what I expected, as trades are executed by (centralized) exchanges in a means that does not involve a blockchain transaction.

VI. TRADING ON VOYAGER & COMPARISON TO OTHER PLATFORMS



Voyager, your passport to the world of crypto



29

²⁹ <https://www.investvoyager.com/blog/the-top-five-reasons-to-use-voyager-to-invest-in-crypto/>

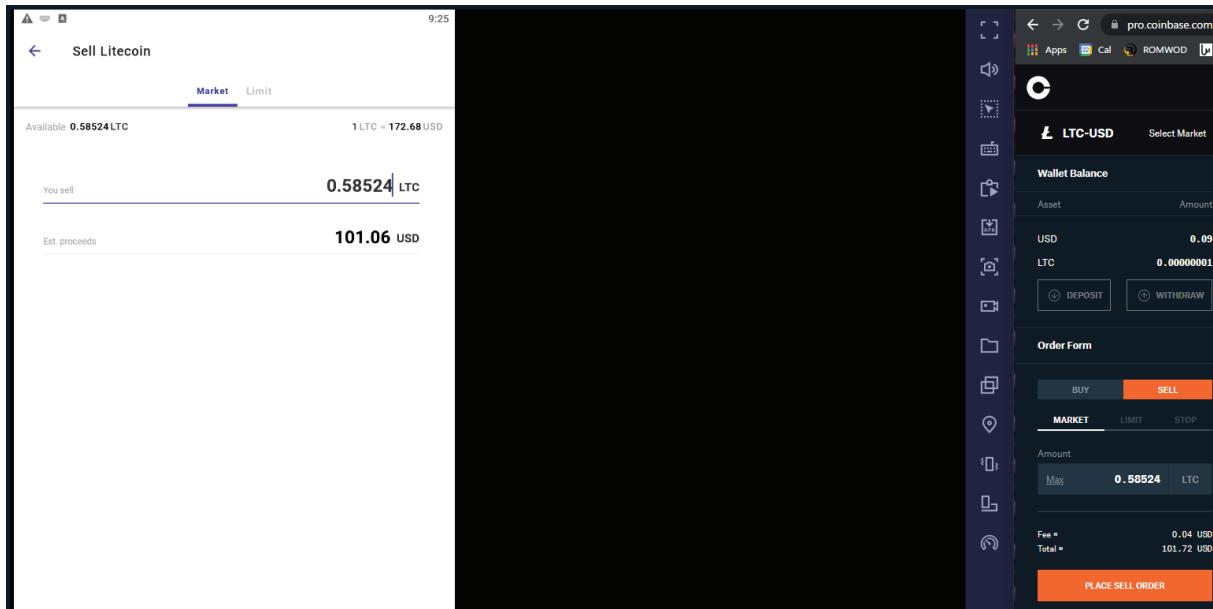
45. In order to compare Voyager's rates to the general cryptocurrency marketplace, I executed the following process:

- a. Voyager was opened on my left display. The exchange I am comparing Voyager was opened on my right display.
- b. I would enter the same market order on Voyager and the exchange I would be comparing Voyager to. For example, if I was comparing how much BTC I would receive in a market buy order for Voyager and Coinbase, I would have the same order (\$100 in exchange for BTC) opened on Voyager and Coinbase.
- c. I would Windows-Shift-S (which freezes your screen) and note the time, jot down the relevant data from Voyager and the compared exchange. I would save the screenshot, and enter the data into the spreadsheet³⁰. Consequently, I have substantiating records for all of the entries in a spreadsheet that can't be refuted on potentially being done at different times.
- d. I note this comparison is quite simple to do, and anybody with a Voyager account can follow the above steps to compare quotes in the same way. In my estimation, the only reason Voyager customers do *not* do this is because they are told -- whether by Voyager or an (uncorrected) member of the public (often an "influencer") that the trades are commission-free.

46. As part of this analysis, I selected the following exchanges to compare Voyager's rates:

- a. Coinbase and Kraken, as they are exchanges heavily utilized by US customers with high liquidity.
- b. Binance, as Binance has some of the highest liquidity/quantity of trading pairs in the industry. Further, the *only* exchange Voyager is presently evidenced as potentially sourcing liquidity from is Binance.
- c. FTX, as this is an exchange more focused to advanced traders -- certainly, the type of platform that Voyager (or whoever Voyager is purportedly lending assets to) would be extremely likely to utilize.
- d. Uniswap and Sushiswap, as these are decentralized exchanges with highly transparent and verifiably accurate order books that would also be sensible routes for a "best marketplace" rate.

³⁰ See: Exhibit F - Voyager trade comparison



47. On all but one occasion (which was for a less liquid cryptocurrency, ZRX, in a small amount, on FTX), Voyager's prices were worse than whichever exchange they were compared to. Voyager does not offer better pricing on trades. In fact, the rates Voyager offers would result in a plainly worse deal, often to the tune of nearly or more than 1% higher than competitors, even on highly liquid pairs such as BTC/USD:

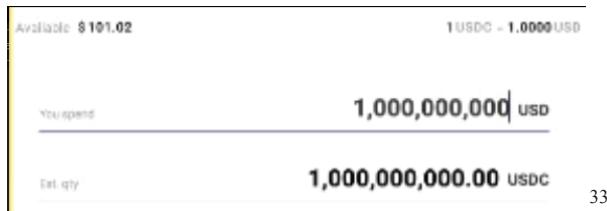
Date/Time Captured	Trading Pair	Voyager	Coinbase
8/19/2021 4:14 PM EST	ZRX/USD	\$7.56	\$7.65
8/19/2021 4:16 PM EST	ZRX/USD	\$7.58	
8/19/2021 4:19 PM EST	MANA/USD	\$22.55	
8/19/2021 5:18 PM EST	BTC/USD	\$102.45	\$103.05

48. Consequently, Voyager's representation of offering "Better Pricing on Trades" is, under the most generous of terms, deliberately misleading (it is *obvious* that would lead most people to conclude "across exchanges"), and I'd opine deliberately misleading in a way that is plainly to enrich themselves at the expense of that very misconception Voyager instills.

49. Voyager represents they are referencing several exchanges to leverage their "smart order router." Unless Voyager is utilizing 3 or more exchanges which provide rates that are far above industry standards (which I not only find incredibly unlikely, but if it

were somehow true, would mean Voyager is grossly incompetent in selecting the exchanges they use), they either are not utilizing three or more exchanges or are tacking exuberant fees on top.

50. Baffled as to how Voyager may be generating the quotes for market buy/sell orders, I decided to run one more test on Voyager regarding USD/USDC. USDC is a cryptocurrency known as a stablecoin, which should be close to the value of the USD; however, these assets are never *entirely* 100%-pegged³¹. Consequently, if one goes onto a cryptocurrency exchange (with legitimate liquidity -- so Coinbase or Kraken would be good choices, whereas an exchange known for fake volume, which is also likely to have fake order books, such as HitBTC³² might not be), and seeks to trade between a stablecoin and fiat, the exchange will not be an exact 1:1 match. Note that when entering tens or hundreds of millions of dollars into a USDC buy order on Kraken, the peg noticeably is lost, as it should be. Note that on Voyager it does not.



51. In the absence of any indication Voyager is sourcing funds from exchanges, as well as the alarming revelation that Voyager's system purports to effectively have infinite USDC stores at peg, I am thus left to conclude that it is possible, if not probable, Voyager is not basing their market quotes off exchanges. The explanation may simply be that Voyager sources liquidity from Binance at a markup.

VII. OTHER OBSERVATIONS REGARDING VOYAGER

52. Voyager's withdrawal fees are high compared to competing services. Interestingly, one of their core partners/competitors, Celsius, seems to have no issues providing free withdrawals. And while I'm aware Celsius requires a minimum \$10 equivalent withdrawal, Voyager has withdrawal minimums as well, and Voyager's withdrawal fees oftentimes exceed \$10.
53. Binance is restricted to US residents. While that does not preclude a business from using them if, say, they are registered overseas, I'd be curious how this is legally structured. If, in reality, Voyager is taking US customer funds, and just giving them to

³¹ <https://invao.org/how-stable-are-stablecoins/>

³² <https://cointelegraph.com/news/bitwise-calls-out-to-sec-95-of-bitcoin-trade-volume-is-fake-real-market-is-or>

³³ See: Exhibit E - Infinite Stability.mp4

HTC Trading, and/or trading them themselves on Binance, I am especially curious how this is handled insofar as company structure. Notably, with Binance's known AML issues, even *if* Voyager were transparently providing Binance's rates on cryptocurrency trades (which they are not) to US users, Voyager is effectively a workaround for Binance being restricted to US residents *and* Voyager can not know, with confidence, what their ultimate source of funds is. Such activity would be, from a value transfer/blockchain analysis standpoint, described as a workaround to US regulatory requirements and cryptocurrency exchange terms of use.

54. HTC Trading has heavy Bitstamp exposure; Bitstamp is known for AML issues. The quantity of Bitcoin HTC Trading has received from Bitstamp alarms me, and heavily. This very well could be part of how Voyager can offer such generous interest: a steady stream of "clean" money from Voyager customers is exchanged for (what was) "dirty" money from shady OTCs³⁴. Shady OTCs routinely launder for criminals. Taking even a 30% cut in the laundering process is common; offering, say, 10% interest to Voyager customers is thus sustained.
55. I can evidence, and have evidenced, that Voyager sends funds to HTC Trading and Binance. What happens with those funds when sent to HTC Trading is a black box (until/unless records are provided), but what one *can* conclude is Voyager, or the company they own/act through, HTC Trading, has one or more Binance accounts. If Voyager were, in fact, being honest about providing the best rates to their customers, it would only be sensible to include in the hypothetical set of exchanges they are getting these alleged best rates from: namely Binance. Said differently: **why does Voyager send customer funds to Binance where they presumably hold account(s) yet a Voyager customer will consistently get a better deal on Binance than is shown on Voyager?** As far as the blockchain is concerned, the *one* place I can *definitively* assess Voyager receiving liquidity from is Binance, yet Voyager's rates were *worse* than Binance every time.

*"All investments involve risk and the past performance of a digital asset or other financial product does not guarantee future results or returns. Cryptocurrencies are highly speculative in nature, involve a high degree of risk and can rapidly and significantly decrease in value. It is reasonably possible for the value of Cryptocurrencies to decrease to zero or near zero. While diversification may help spread risk, it does not assure a profit or protect against loss. Investors should consider their investment objectives and risks carefully before investing. Previous gains may not be representative of the experience of other customers and are not guarantees of future performance or success."*³⁵

56. The above risk disclosure suggests a core risk that Voyager customers face is the volatility of cryptocurrencies. A cryptocurrency investor may have a diversified portfolio as part of efforts to mitigate this risk. However, Voyager's suggestion that

³⁴ <https://blog.chainalysis.com/reports/money-laundering-cryptocurrency-2019>

³⁵ <https://www.investvoyager.com/blog/voyager-where-smart-order-routing-meets-crypto/>

users themselves can mitigate this risk by diversifying on Voyager is neither verifiable nor likely to be true. This is because Voyager rehypothecates customer assets. If a user deposits a less liquid cryptocurrency (relative to BTC or ETH), such as LINK, I doubt and doubt strongly Voyager is keeping that asset in-kind; instead, it is typical that companies like Voyager will sell that digital asset for something else. Consequently, if LINK crashed over 90%, this would impact Voyager and their liabilities to all customers across all assets, whereas if a non-Voyager-using cryptocurrency investor simply held BTC and LINK themselves, that cryptocurrency investor's BTC holdings would not be impacted. In essence, volatility of cryptocurrencies (at least insofar as the particular types Voyager users deposit or purchase) is not the additional risk Voyager users take on by using Voyager: Voyager's management of those assets is the risk that would be proper to address, yet Voyager, bizarrely, does not do so in such a prominent way.

Posted by u/Globemastered 5 months ago

How is Voyager able to offer such high interest rates on staking?

17 Comments Share Save Hide Report

Sort By: Best

[View all comments](#) [Show parent comments](#)

Globemastered OP · 5m
So Voyager is arbitraging our trades across different exchanges and making hand-over-fist so they can afford to pay higher yields?

4 Reply Share Report Save

trad1323 · 5m
Adventurer
They loan to a company that deals in these loans They're 2 steps removed from the people who are doing this to you/us

8 Reply Share Report Save

DemApples4u · 5m
Yup, my example was just to discuss one example source. Others could borrow to avoid selling an dpaying taxes.

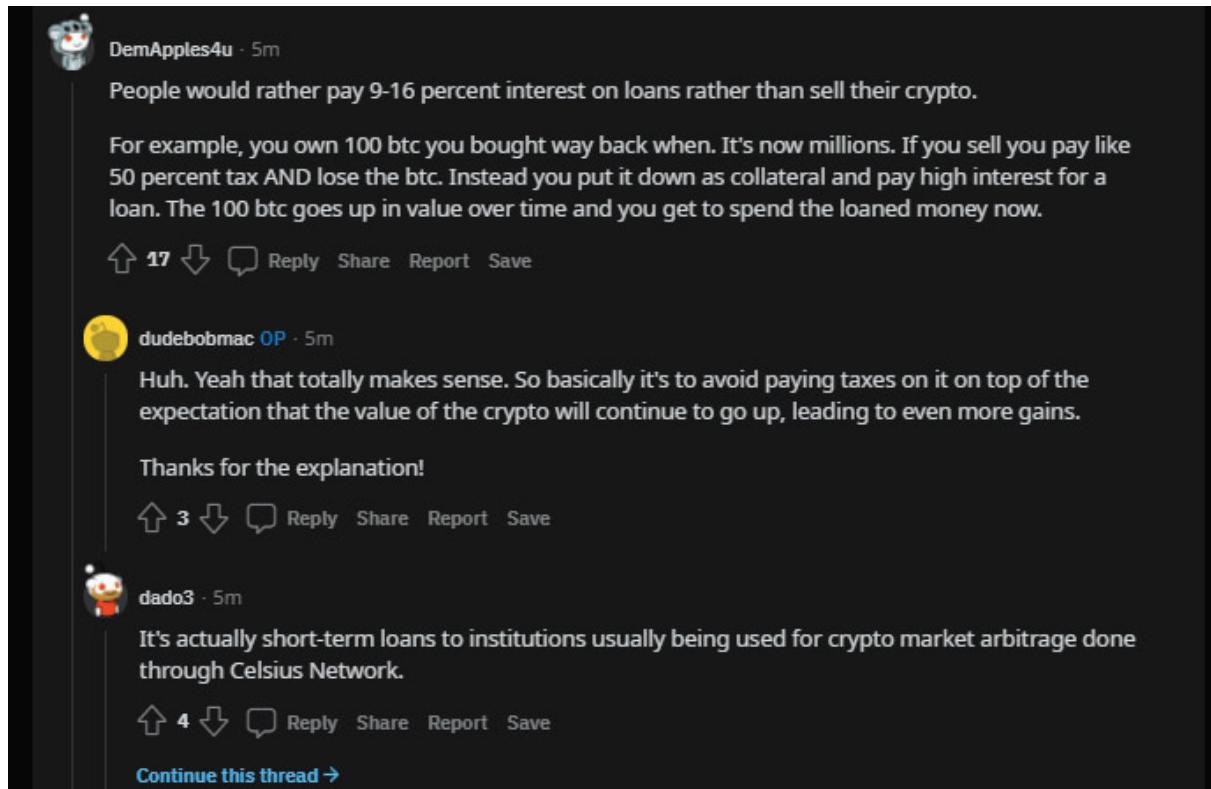
2 Reply Share Report Save

M3tus · 5m
The spread/fees is the highest in the market, I believe. They are straight printing money for those that are using Voyager for high trading volume. I'm a long term hodler, so Voyager is 100% awesome other then the 'not your keys, not your wallet' nonsense.

1 Reply Share Report Save

xCasualRabbitx · 5m
Haha you sound like such a complainer. They are a broker. Like every other broker does.

57. When attempting to Google “how does Voyager pay interest”, what is discovered are vague statements (“loaning,” “arbitrage”, etc.) that do not provide any proof of such activity, nor any particulars thereof.



DemApples4u · 5m
People would rather pay 9-16 percent interest on loans rather than sell their crypto.
For example, you own 100 btc you bought way back when. It's now millions. If you sell you pay like 50 percent tax AND lose the btc. Instead you put it down as collateral and pay high interest for a loan. The 100 btc goes up in value over time and you get to spend the loaned money now.
↑ 17 ↓ Reply Share Report Save

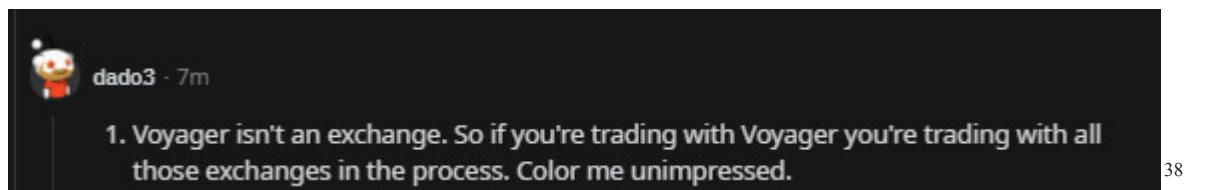
dudebobmac OP · 5m
Huh. Yeah that totally makes sense. So basically it's to avoid paying taxes on it on top of the expectation that the value of the crypto will continue to go up, leading to even more gains.
Thanks for the explanation!
↑ 3 ↓ Reply Share Report Save

dado3 · 5m
It's actually short-term loans to institutions usually being used for crypto market arbitrage done through Celsius Network.
↑ 4 ↓ Reply Share Report Save

[Continue this thread →](#)

37

58. Generally, a common public interpretation of what Voyager does with customer assets to generate income is that they provide loans -- whether to their customers or to institutions. I find it incredibly unlikely that these loans support the interest rates Voyager offers and that such interest rates are supported by other means, including undisclosed higher-risk activity Voyager performs with customer assets.



dado3 · 7m
1. Voyager isn't an exchange. So if you're trading with Voyager you're trading with all those exchanges in the process. Color me unimpressed.

38

59. Commentary I reviewed defending Voyager was often ripe with presumed facts that do not reflect what I discovered in my analysis. Per my analysis of Voyager trades, I find

37

https://www.reddit.com/r/Invest_Voyager/comments/o6tgnf/how_does_voyager_support_a_9_interest_rate_on_u_sdc/

38

https://www.reddit.com/r/Invest_Voyager/comments/mv3ke6/voyager_shill_re_evaluates_his_thoughts_on/gvj4fml/

it very unlikely that Voyager is conducting trades “with all those exchanges in the process”. In essence, Voyager’s representations have misled (deliberately or otherwise) the public. Voyager frequents and moderates (and even replies to) their own social media platforms, such as Twitter or Reddit; in my estimation, this would be one (of an undetermined yet large amount of occasions) appropriate time for Voyager to have clarified how their system actually works.

↑ Posted by u/marty_funk_man 9 months ago

4 **Trading with Voyager - TradingView**

↓ For people who trade with Voyager, which exchange do you look at for reference on TradingView? I understand that Voyager gets the best price from multiple exchanges, but if anyone has an opinion or comment on this that would be great. I mainly us TV to do my technical analysis

1 Comment Share Save Hide Report 100% Upvoted

Log in or sign up to leave a comment **Log In** **Sign Up**

Sort By: Best ▾

 **AHappyThongsLabor** · 8m I just set it to binance or whatever exchange has the longest USD price history

↑ 2 ↓ Comment Share Report Save

39

60. The fact that the public relies on Voyager’s representations regarding best price for trades is evidenced in posts such as the one screenshotted above: this Voyager user is plainly under the impression that the rate they receive on Voyager would be the same used on Binance or elsewhere, which is simply not true.

³⁹ https://www.reddit.com/r/Invest_Voyager/comments/ls44qy/trading_with_voyager_tradingview/

Posted by u/opteryx907 7 months ago

USDC transfer cleared in 10 minutes! See ya Voyager!

Over the past few weeks, I've done three USDC transfers from Voyager to Binance. The first two took about 24 hours, but today, it cleared in under 10 minutes. Hopefully this means Voyager's scaling problems are behind them.

That said, I probably won't be using voyager anymore, as their no commission marketing promises are deceptive, and they more than make up for their lack of commission through ridiculous bid-ask spreads and excessive transfer fees. It's an effective tactic for drawing in newbies to the crypto space, but try a real exchange like Binance, Kraken, or KuCoin, for a while, and you'll quickly see how Voyager is charging a hidden premium on its users.

Couple that with the inability to transfer altcoins like AVAX and DOT, and I just don't see any compelling reason to stay on this brokerage platform.

I'll probably get downvoted for this, but I wish I had learned this earlier. If it weren't for their scaling problems, I might not have (well, that, and a desire to use PancakeSwap). Good luck to all!

16 Comments

Share

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Report

79% Upvoted

40

40

https://www.reddit.com/r/VoyagerExchange/comments/myhi1e/usdc_transfer_cleared_in_10_minutes_see_ya_voyager/

 TrypZBTC · 7m
I noticed exactly what you said about the bid ask prices last week and was just absolutely amazed.. Voyager claims to utilize multiple exchanges for buy and sell orders and even if they only used one your Buy/Sell order spread would NEVER be that spaced out.
It makes no sense what so ever and you are spot on with the luring of new users with the no fee advertising.
I really want voyager to be a massive success, I really do. I was heavily impressed with the CEO doing regular live streams and listening to customer feedback that I believed I was investing in good people with honorable and good business practice.
Yet the more I use Voyager the more suspicious I am of that not being the case what so ever.. and that is really unfortunate.
Am currently STILL awaiting a response to my customer support ticket I sent in over a month and a half ago.. that should be one of the top priorities to their business moving forward

 6   Reply  Share  Report  Save

 bpmccaff · 7m
I agree. The spreads are crazy. It took me a couple trades to really notice. Now i have a bit there earning interest but thats it

 2   Reply  Share  Report  Save

 BITethADAdotLINK · 6m
Blockfi, Celsius and Nexo have been dropping rates (amounts that can earn the highest rates), increasing loan rate at Nexo for their platinum level...
Voyager is looking better than all three for Bitcoin and Litecoin, ada... Especially if you own enough VGX:
"Get a 1% APR Interest boost on USDC, BTC, & ETH when you hold 10,000 VGX in your portfolio.
Earn up to 10% on USDC, 7.25% on BTC, & 6.25% on ETH."

 1   Reply  Share  Report  Save

61. The above provides further examples of the public:
 - a. Observing the disparity with how Voyager trades execute

- b. Observing Voyager preying upon new users
- c. Observing market trends related to their competitors; namely, that the interest rates would compel more users (providing further incentive, if not necessity, for Voyager to take higher-risk, higher-yield activity)

62. These examples of the public misunderstanding, or being led to misunderstand (if even via a lack of easily-provided clarity) continue to the very day of writing of this report⁴¹

⁴¹

https://www.reddit.com/r/VoyagerExchange/comments/qotgkh/voyager_seems_to_use_a_spread_to_calculate_fees/

Up  r/Invest_Voyager · Posted by u/GringoExpress 5 days ago 10 2 91

Voyager Constructive Criticism

Down

I want to preface this critique of Voyager by stating I am a Voyager user. An avid one. I've used Coinbase, CB Pro, Kraken, Celsius, KuCoin, Binance when it was available in the US, and even the horrible Robinhood (albeit briefly just to swing trade Doge when it blew up earlier this year). Voyager won. I now use them exclusively for all of my crypto hodls. Their interest rates are typically at or near the top across the board. The user experience of the app is excellent. Super easy to use, very visually appealing. They are the only regulated exchange besides Coinbase. This is very important to me. Their instant deposits work flawlessly. Their KYC process is reasonably quick and their security appears to be some of the best. I love \$VYGVF as a stock. I think it offers immense upside with very little downside risk based on its current valuation. The recent partnership with Mark Cuban combined with Voyager's recent talk of 8 million+ share buyback, I'm more convinced than ever this company is an absolute juggernaut in the making. Despite holding several thousand dollars of VGX tokens, I'm not nearly as confident in VGX. I'll get into that below.

I know Voyager has lofty goals of becoming the preeminent "financial lifestyle" app, but they need to focus on becoming a better crypto app in the interim. Here's where, I believe, Voyager MUST improve in order to become the most popular crypto platform right now.

1. Voyager should just remove its limit orders altogether. They are a farce. Both of Voyager's orders options, market AND limit, are both simply market buys. According to Voyager, users' buy orders are filled at the very best price available after being shopped across numerous exchanges, but it's a market order nonetheless. **I've never encountered a single instance of a Voyager limit order executing a single cent below the ask price.** All limit orders only execute at the ask, period, without exception. Placing a limit order in between the bid and ask is just a waste of time. This is one of the most disappointing features of Voyager in my opinion. I'm not trying to knock Voyager too much. I think they're in an amazing position to become what SoFi is trying to become in the U.S. if they execute correctly, but Voyager needs to fix (or remove altogether) their farcical limit orders. They do not at all work like limit orders we are used to in the stock market.
2. Voyager needs to offer a self insurance opt-in program similar to that which Celsius is offering whereby the user sacrifices a portion of their monthly earned interest (Celsius will be 0.5% - 1%, for example) so that Voyager users actually feel comfortable allowing their coins to sit on Voyager's platform. Yes, Voyager's security appears to be great, however, currently only \$USD on their platform is FDIC insured. Voyager NEEDS to offer a self-insurance opt-in program since users are forced to keep (stake) their coins on Voyager to earn interest. Besides, if their security is as impregnable as they claim, then this self-insurance program would actually benefit Voyager by allowing them to pay slightly less interest to users. I, for one, would immediately sacrifice 1% interest to know my holdings were all completely insured.
3. Voyager needs to release its debit card as soon as possible. I would be first in line to get it. If I could

Bills with my Voyager debit card... my God, I would do it IMMEDIATELY.

4. Voyager should offer a Voyager Pro (a la Coinbase Pro) whereby day traders pay slightly more for access to reduced spreads. This is a NECESSITY if Voyager wants to capture the ever-growing crypto day-trading audience. I've done many tests of Voyager's spreads compared to other platforms. Voyager's certainly aren't the best, but they aren't the worst. It ends up costing about as much to trade on Voyager as it does on Coinbase after you factor in Coinbase's fees. It's really about a wash. If you are a very active trader I unfortunately would recommend Coinbase Pro over Voyager. But Voyager is still absolutely the best for folks who just want to hodl their crypto and not trade, and just earn interest on Voyager all day long. Even for those who swing trade, holding coins over multiple days or weeks and then selling, Voyager is perfectly adequate. **But if you're day-trading crypto, Voyager is not your platform, plain and simple. You'll get eaten alive by the spreads.**

42

63. Even self-professed supporters of Voyager are unable to provide an explanation for Voyager enticing users to their platform suggesting to trade. If it was possible to explain away the reality of Voyager's trades (such as how what Voyager does with customer assets being "explained away" as "loans" or other vague terms), in my experience, those with an interest in defending Voyager would likely rely on such statements: but the math precludes such explaining way.

Posted by u/opteryx907 7 months ago

24 USDC transfer cleared in 10 minutes! See ya Voyager!

16 Comments Share Save Hide Report

Sort By: Best

[View all comments](#) [Show parent comments](#)

AdrianMoD · 7m

Paid YouTubers. That's how they got me. Never again

2 Reply Share Report Save

43

⁴² https://www.reddit.com/r/Invest_Voyager/comments/ql9p7w/voyager_constructive_criticism/

⁴³

https://www.reddit.com/r/VoyagerExchange/comments/myhi1e/usdc_transfer_cleared_in_10_minutes_see_ya_voyager/gvvohb0/

64. These paid YouTubers, often described as “educators”, should have the wherewithal to know that Voyager’s representations regarding trades are not accurate. Surely, had these educators utilized Voyager for day to day trades, they would have the experience to know it was to their own disadvantage to execute such trades on Voyager as opposed to a quantity of other platforms. Despite this, these “influencers” aggressively promote Voyager -- because there is financial incentive to do so in the form of affiliate links. The general public relies upon both representations from Voyager as well as from the “crypto influencers” promoting them as their form of second-source verification of Voyager’s credibility. These “influencers” would not have as much of a lavish livelihood without Voyager affiliate links, and Voyager would not have near as many (plainly misled) users without the (incentivized) vouch to use a platform in a way that would ultimately be to their financial detriment.

VIII. SUMMARY

65. Voyager’s representations, particularly those about commission-free trading, best prices, and risk, are misleading and inaccurate, as demonstrated in this report and substantiated with the attachments to this report.

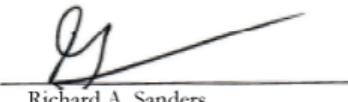
66. Anybody eligible to sign up for Voyager would be able to perform the same style of trade analysis I performed. There are examples of Reddit users performing similar steps already.

67. The blockchain industry often attracts “new blood” every bull market. Voyager’s aggressive expansion in the late 2020/2021 bull market is, in my estimation, plainly targeting inexperienced cryptocurrency users/investors that would not have the experience to know better. New cryptocurrency users rely on active industry participants (companies such as Voyager, and “educators/influencers”) to provide them with good-faith insight and not mislead them. Voyager’s representations, namely those about commission-free and best price trading, would undoubtedly be understood to mean what they say they mean whether by a cryptocurrency novice or a deeply experienced expert.

68. It is only after trusting companies like Voyager (or the less than integral “educators” with paid incentive to promote them) and learning “the hard way” that Voyager users learn they lose money trading with Voyager. The same applies for any Voyager users

that learn of the realities of the risk of entrusting Voyager with their assets. It is practices such as these that have been a prominent barrier to mass adoption of digital assets: the general public will not trust the blockchain industry until companies in that industry conduct themselves to higher standards.

// ENDS



Richard A. Sanders
Lead Investigator, Principal
CipherBlade

Exhibit A

(CipherBlade Preliminary Expert Report)



CipherBlade

Blockchain Investigation Agency

+1 (732) 890-7874

rich@cipherblade.com

www.cipherblade.com

Curriculum Vitae of **Richard Sanders, CRC**

Forensics reports, Declarations, and other work samples available upon request and NDA signing.

Summary: Combat veteran continuing a sense of mission as a blockchain forensics expert and cryptocurrency cybercrime investigator with experience in dozens of cases. Seen as subject matter expert by legal, law enforcement, and regulatory professionals. Experience working with top law firms performing forensics work and other expertise-based supportive efforts. Experience testifying and writing reports for a diverse array of cases involving cryptocurrency, including OTC deals, theft (as one example, SIM-swaps), and suspect ICO (misappropriation/embezzlement/etc.) disputes. Strong leadership, investigative, and analytical skills foster results.

CipherBlade: Lead Investigator, Co-Founder

- Launched first-of-kind cryptocurrency investigative agency
- Leads team of 8 staff dedicated to uprooting fraud and discovering the truth via the blockchain
- Renowned expert in blockchain forensics (utilizing tools such as Chainalysis, Crystal, or tools developed internally by need,) briefing law enforcement, legal professionals, and senior level exchange executives/compliance staff on complex blockchain transactions, security vulnerabilities, and other rapidly evolving elements of new waves of crime
 - First Certified Investigative Partner with Chainalysis
- Expert witness with experience leveraging deep knowledge of cryptocurrency criminal methodologies and networks
 - Maintains active infiltration in underground hacker/scammer communities to maintain cutting edge threat intelligence leveraged by AML professionals and law enforcement
 - Developed and maintains list of common tendencies/observations of suspicious blockchain companies, which have provided 100% accuracy in data points upon reviewing ICOs/equivalent for mismanagement, embezzlement, and other crime
 - Serves as trainer and mentor for professionals in the public and private sector regarding fusion of on-chain and off-chain intelligence, leveraging OSINT and other techniques with blockchain forensics expertise to foster an environment in which “they can’t hide”
 - Has a 100% success rate in unveiling undisclosed cryptocurrencies in divorce cases
- Lead investigator for dozens of cryptocurrency scams and hacks, most notably the ‘OGUsers’ ring with many arrests in 2018
 - As a lead investigator, is involved throughout full case lifecycle, from the time of incident through prosecution
 - Assists affected parties with stabilizing upon breach and gathering initial forensics data
 - Generates law enforcement reports in a renowned “pretty box with a ribbon” format, greatly enhancing likelihood that reports are actionable and serving as a catalyst for law enforcement action on highly complex cases that often lack past “playbook precedent”

- Conducts investigation of person(s) of interest for such incidents, including social engineering of social engineers, and feeding identifying data to law enforcement which led to the arrests of many simswappers via REACT and the FBI
- Assists prosecutors by feeding evidence and opinion in order to ensure person(s) responsible for these incidents are held appropriately accountable
- Assists victims and legal counsel by generating Declarations, often enabling and expediting asset recovery after arrests and asset seizure
- Advisor for top-tier blockchain projects, such as Dusk and ChromaWay
- Leverages blockchain, regulatory, and cyber knowledge to serve exchange clients such as Bitbuy with solvency audits
- Provides public-facing expert research and opinion on controversial matters in the blockchain industry, such as the Coinomi vulnerability and ShapeShift/WSJ dispute
- Speaks at events and panels such as Blockchain In The Burgh to raise awareness about the importance of preventative security, AML, and public safety considerations
- Provides insight and training to numerous LEAs on complex issues such as BECs, elder abuse/fraud, romance scams, money mules, and other typologies that require additional external expertise

Crypto Defender's Alliance: Leadership Team

- Selected to be one of five administrators of Crypto Defenders Alliance (CDA), an organization comprised of executives and AML/Compliance/Legal staff from nearly all cryptocurrency exchanges which seeks to thwart fraud involving cryptocurrency
- Observes best practices from work with CipherBlade clients and/or in the course of CipherBlade investigations and fields requests for bleeding-edge insight on complex topics such as mixers beneficial to even well-known, compliant exchanges such as Coinbase
- Led initiative to significantly bolster representation of member organizations in CDA based upon observing a need for representation from a particular continent (Africa), resulting in adding the majority of cryptocurrency exchanges focused in that region and uprooting untold millions in scam laundering
- Manages intra-exchange communication to combat ML and share best practices in the premiere industry self-regulatory organization

Anti-Human Trafficking Intelligence Initiative: Blockchain Forensics and Industry/Law Enforcement Liaison

- Led initiative to significantly bolster representation of member organizations in ATII based upon observing a need for representation from particular cryptocurrency exchange and service typologies, with a special emphasis on P2P trading platforms and exchanges identified in the course of CSEM investigations
- On numerous occasions, acted upon intelligence provided within ATII that included Bitcoin wallet addresses pulled from dark websites soliciting and distributing CSEM. As just one example of efficacy and efficiency, coordinated dusting attack targeting 46 different child exploitation sites (at a \$36 self-funded cost and with 15 minutes of effort) which resulted in data able to unveil thousands of CSEM purchasers and identify where the CSEM distributors were laundering funds
- Upon unprecedeted results, was asked within months of membership to join ATII's Advisory team
- Participated in Follow Money Fight Slavery 2021 Summit on the Cryptocurrency Kiosk and Bitcoin ATM Panel

Educational Qualifications and Professional Certifications

Mr. Sanders earned a Bachelor of Science degree in Homeland Security while on active duty with the US Army. Despite maintaining a work schedule that far exceeded the typical “9 to 5,” he devoted almost the entirety of his off duty hours to utilizing the educational benefits provided to him as a service member to exceed the standard with a 3.7 GPA. He holds numerous

awards, affiliations, and memberships in a variety of functional areas, mostly within military and security work as well as philanthropic undertakings. The most notable of these is a CORe credential from Harvard Business School extension. Mr. Sanders holds a Certified Blockchain and Law Professional with the Blockchain Council as well as Certified Bitcoin Professional certification.

Mr. Sanders also holds a Chainalysis Reactor Certification, a course ran by the firm which provides the forensics tool most frequently utilized in blockchain forensics. During this course, Chainalysis staff shared that Reactor is a tool that presents data; analysis is still up to the analyst, and referenced Mr. Sanders as one of the top analysts. Mr. Sanders attended the first Chainalysis CISC course by request and provided immense helpful feedback. Minimal formal training exists for blockchain forensics, and *zero* training exists that covers the full spectrum, marrying on-chain and off-chain observations into a comprehensive skillset. Mr. Sanders has been requested to develop training for CDA, and is in discussions to begin guest lecturing. In short, Mr. Sanders is creating the educational qualifications.

- Certified Blockchain and Law Professional, Blockchain Council
- Chainalysis Investigation Specialist Certification, Chainalysis
- Certified Bitcoin Professional, CryptoCurrency Certification Consortium (C4)
- Chainalysis Reactor Certified Professional, Chainalysis
- HBX CORe, Harvard Business School

Other experience and education available on [LinkedIn](#)

Mr. Sanders in Press/Media

Mr. Sanders is in increasing high-demand for quotes for articles, podcasts, and interviews. Below are some of a continually growing list of the aforementioned:

- <https://www.coindesk.com/cipherblade-okex-huobi-csem-morphotoken>
- <https://bravenewcoin.com/insights/podcasts/the-blockchain-detective-taking-on-elite-cybercriminals-and-owning-them>
- <https://thenews.asia/interview-with-rich-sanders-okex-and-market-transparency/>
- <https://decrypt.co/29865/meet-the-forensics-expert-who-tracks-stolen-bitcoin>
- <https://www.coindesk.com/crypto-scam-apps-in-app-stores>
- <https://decrypt.co/17103/forensic-investigator-sudden-shut-down-of-the-coss-exchange-looks-suspicious>
- <https://cryptobriefing.com/hitbtc-insolvent-scams-users-cybercrime/>
- <https://anchor.fm/scottcbusiness/episodes/Discussing-Cipherblade-With-Richard-Sanders-ebi2ot>
- <https://mondovisione.com/media-and-resources/news/chainalysis-launches-certified-investigative-partnership-program-to-meet-demand>
- <https://www.financemagnates.com/cryptocurrency/news/bitbuy-conducts-third-party-audit-launches-otc-desk/>
- <https://unchainedpodcast.com/how-to-keep-your-crypto-from-being-stolen-via-your-phone/>

Summary of Expert Witness Experience

Mr. Sanders has served as an expert for either or both Plaintiff and Defendants in cases involving, as some examples:

- Divorce
- ICO disputes against “soft exits” or other mismanagement
- Cases against ICOs (including Enforcement actions) and VCs/funds
- SIM swapping and other theft
- Cryptocurrency exchange account compromises
- OTC disputes
- Cryptocurrency taxes

- Immigration
- Source of funds
- Misappropriation/embezzlement
- Cryptocurrency exchanges
- Fraud
- Hacks
- AML/Compliance

Detailed case experience is available upon request.

Exhibit B

(CipherBlade Preliminary Expert Report)



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Suite 601
Coral Gables, FL 33134
Office: (305) 740-1423
Direct: (786) 309-9585

Partner in charge and of record: Adam M. Moskowitz

Mr Richard Sanders
CipherBlade LLC
301 Grant Street, Office 270
Pittsburgh, Pennsylvania 15219
United States of America

By email to: rich@cipherblade.com

July 16, 2021

Dear Mr. Sanders:

Letter of Instruction Re: Mark Cassidy v. Voyager Digital Ltd., et al.

Thank you for agreeing to act as an expert in this matter.

This Letter of Instruction appoints and instructs you to carry out such investigations and inspections as are currently feasible, prior to disclosure of Defendants' documents, data, software and systems, and availability of other evidence, to produce an independent preliminary expert's report on behalf of our client, the Plaintiff, CASSIDY, in respect of the Complaint to be filed in due course by The Moskowitz Law Firm, PLLC, as captioned above. Any written reports or other documents that you may prepare are to be used only for the purpose of this Litigation and may not be published or used or disseminated in whole or in part for any other purpose without our prior written consent.

1. The Parties

This letter constitutes a retainer agreement ("Agreement") between The Moskowitz Law Firm, PLLC ("Counsel" or "Clients") as counsel for the class action plaintiffs ("Plaintiffs") in the subject litigation, and Richard Sanders and CipherBlade, LLC (collectively, "CipherBlade"), under which you will provide litigation consulting and expert testimony services in connection with the above-referenced matter. At time of writing, it is not yet known which attorneys will act for VOYAGER in this matter, but we will advise you as soon as known.

2. Background and Allegations

In regard to the issues upon which we request and instruct you to opine, in the field of your expertise, the background to and the allegations in this case are in summary as follows:

- Voyager, through its Voyager Platform, offers investors, developers and platform providers a fully functional suite of APIs and mobile apps to allow anyone who is legally able to do so the ability to trade, invest, earn and secure digital assets across multiple types of digital assets. According to its creators, Voyager “is a publicly traded holding company whose subsidiaries operate a crypto-asset platform that provides retail and institutional investors with a turnkey solution to trade crypto assets. The Voyager Platform provides its customers with competitive price execution through its smart order router and as well as a custody solution on a wide choice of popular crypto-assets. Voyager was founded by established Wall Street and Silicon Valley entrepreneurs who teamed to bring a better, more transparent, and cost-efficient alternative for trading crypto-assets to the marketplace.”
- VDL, one of Voyager’s subsidiaries, acts as a “crypto broker,” being a digital agent broker that facilitates users buying and selling of cryptocurrencies delivering deep pools of liquidity. It also offers a single access point to research, manage, trade, and secure cryptocurrencies for novice and sophisticated investors.
- Included prominently throughout Voyager’s uniform marketing representations to its customers is that the Voyager Platform offers trades that are “100% Commission-Free.”
- Voyager’s “100% Commission-Free” representations, however, are false and are reasonably likely to mislead objective consumers acting reasonably under the circumstances. While Voyager does not openly display the commissions it charges on each cryptocurrency trade, Voyagers utilizes various methods to secrete the exorbitant commissions it retains from every trade.
- To effectuate these unfair and deceptive business practices, the Voyager Defendants use proprietary systems they have developed, which they refer to as the “Smart Order Router,” the “Voyager Pricing Engine,” and the “Proprietary Fills Algorithm.”
- In describing the Smart Order Router, the Voyager Defendants maintain that the Voyager Platform “does not let clients post orders directly on the exchanges to which it connects or with the market makers that provide liquidity, but instead its Smart Order Router accepts customer orders and fills them in the market for the customer using its proprietary order routing algorithm.” The Voyager Pricing Engine “calculates the fair market price while constantly analyzing the order books, executions, depth of liquidity, commissions and other proprietary factors across [Voyager’s] liquidity sources and streams this price to its users.
- In reality, and unbeknownst to customers, the Voyager Defendants’ “Smart Order Router,” “Voyager Pricing Engine,” and “Proprietary Fills Algorithm” are designed to be intentionally obscure and to provide Voyager with hidden commissions on every trade that in most cases exceed the disclosed fees and commissions charged by its competitors. Voyager unfairly gains an edge on its competition and overcharges customers by collecting these secret commissions to the detriment of its unknowing customers.
- After being exposed to the Voyager Defendants’ representations that their Platform is “100% Commission-Free,” the Plaintiff registered for an account on the Voyager Platform on March 17, 2021, and in reliance on the Voyager Defendants’

representations, the Plaintiff executed a number of trades on the Voyager Platform, some of which are to be exhibited within the Complaint, for example as screenshots of the Plaintiff's May 11, 2021 'Market Buy trade at Order ID Dx65EW', enclosed herewith at Annex A.

Given that the Complaint has yet to be filed, please bear in mind that the expression of the allegations and claims in the case are provisional at this stage, and are highly likely to evolve in due course, with attendant likelihood of development of issues for you as an expert potentially to address.

3. Issues for you to address

We anticipate and request that you will work as a blockchain forensics expert in consultation and co-ordination with Dr Stephen Castell CITP, of *Castell Consulting*, the computer evidence, software and systems procurement, development, performance and quality expert whom we are also retaining, with instructions *inter alia* to work with, but independently of, you, to monitor, record, write-up and analyse the concurrent test trades that you will carry out using and operating the Voyager App and certain other cryptocurrency trading platforms.

We request and instruct you to

- Review the Complaint, in particular the screenshots enclosed herewith at Annex A, together with consideration of initial case documentation that we provide to you.
- Carry out and record a representative series of concurrent test trades using and operating the Voyager App and certain other cryptocurrency trading platforms. We will discuss and agree with you appropriate arrangements to achieve this, for example as regards setting-up identities, subscriptions, logons, and funds to carry out these representative test trades.
- Produce blockchain forensic examinations by way of provisional analyses, findings, conclusions and opinions, giving such insights as may be sensibly achievable based on both the restricted documentation available prior to discovery and disclosure and relying on the data obtained from the concurrent test trades that you will carry out.

Notwithstanding the above, if having read this Letter of Instruction, you feel that you may not have the appropriate experience or expertise to deal with these matters, please let us know immediately.

4. Expert's Duties

It is understood that (i) you will make reasonable effort to be available upon reasonable advance notice; (ii) you will keep confidential all information obtained, or analyses developed, in connection with this or any related litigation with respect to which we may seek your advice and counsel; (iii) you will use such confidential information solely in connection with this engagement on behalf of the Clients; (iv) you will preserve any written materials, including emails, generated or received in connection with this engagement; (v) you will not in the future consult for, or otherwise represent, any other person or entity with an interest adverse to the Clients' interests in or concerning the pending Litigation, or the events or occurrences out of which the pending Litigation arises; and (vi) you will keep confidential your retention in this

matter, unless and until you are identified in court papers as a testifying expert, or Counsel otherwise authorizes you to breach this confidentiality.

It is specifically understood that communications with Counsel that identify facts or data that have been provided to you, and which you considered in forming your opinions, as well as communications that identify assumptions provided by Counsel and upon which you relied in forming the opinions in your report, may become discoverable.

You agree that: (i) you will not prepare any draft opinion or report without Counsel's consent (regardless of whether the draft is for internal purposes or to share with others); (ii) you will not share any draft opinion or report, or any notes, with any other person without Counsel's consent; and (iii) every draft opinion or report will bear the following legend: "THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED".

It is further understood that, if called upon to provide a written report of your procedures and findings and to supply expert testimony at deposition, trial, or other hearings, your report will need to comply with federal and local court rules or procedures, if any, regarding expert reports, and, in connection with preparation of a report, opinion, or testimony on a matter, you will need to perform those procedures that you consider necessary to express a professional conclusion. Counsel may revise the scope of your work at any time during the course of our engagement. You agree to provide copies of all your working papers and work product to Counsel and the conclusion of your services.

5. Your report

As emphasised above, you are appointed and instructed to carry out such investigations and inspections as are currently feasible, including the concurrent test trades that you will carry out, prior to disclosure of Defendants' documents, data, software and systems, and availability of other evidence. We therefore instruct, acknowledge and accept that the independent expert's report that we wish you to produce will at this stage be of a preliminary nature.

Notwithstanding its provisional status, the report provided by you must comply with the applicable requirements of the Federal Rules of Civil Procedure, the Federal Rules of Evidence, and the best practices and guidelines developed by the US National Institute of Justice's Scientific Working Group on Digital Evidence. You acknowledge that the opinions you render in this matter shall be made in good faith and supported by a reasonable amount of research and analysis. Prior to the release of any opinions to the opposition, and the rendering of any testimony, the parties will review the facts and circumstances surrounding your work and opinions. Further, the parties will review and agree, prior to the release of any expert opinion and the rendering of any expert testimony, that the anticipated testimony has a basis in fact and such testimony is both relevant and reliable. Please let us know immediately if, at any time after producing your report, you change your views.

It is also important to let us know promptly if you need to update your report after it has been filed with the court (whether that be the preliminary expert's report envisaged in these instructions, or any future report that may be produced by you for this matter), for example

because new evidence has come to light, so that we may consider whether an amended version of your report or a supplemental report should be served.

6. Timetable

As the Complaint has not yet been filed, there are at this time no court proceedings and therefore there are no court directions in relation, for example, as to when expert reports must be ready. However, it would be helpful if you could proceed immediately with your work, with a target to produce a draft of your preliminary expert's report within the next two months. Please let us know immediately if this target at any time appears to you to become unworkable for any reason.

The term of this retention is from the Effective Date to (i) termination of this retention by either party by giving written notice to the other (such termination shall be effective on the date that the party receives the notice in fact); (ii) the completion of the services; or (iii) Client's receipt of the final invoice for professional fees.

7. Next steps, and Fees

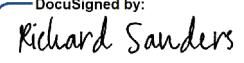
If you accept these instructions, please let us know:

- (a) That you confirm that you have had no prior dealings with any of the parties which could cause a conflict of interest.
- (b) When you anticipate completing your report, and if you envisage any difficulty with the target to produce a draft of your preliminary expert's report within the next two weeks.
- (c) That you confirm your earlier budgetary estimate that the likely costs of providing your preliminary expert's report will be a maximum of \$7,500 (seven thousand five hundred US Dollars). Please say at the earliest opportunity if it appears at any time that your fees in the event and in the out-turn of the work that you undertake pursuant to these instructions are likely to exceed your budgetary estimate of \$7,500.

Subject to these confirmations, we will immediately disburse to you, as you have requested, $25\% \times \$7,500 = \$ 1,875$ as an up-front good faith payment on account; and we agree that beyond that we will pay your Invoices to us within 30 calendar days of receipt.

We understand that your fee is not contingent upon the final results and you do not warrant or predict results or final developments in this matter.

We look forward to hearing from you.

Yours faithfully, Adam M. Moskowitz, Partner, The Moskowitz Law Firm, PLLC.	ACCEPTED BY: Richard Sanders, CinhabarBlade LLC By  36FA655E3FB545F... Date: 7/19/2021
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Enclosures: - Annex A: Plaintiff's screenshots, May 11, 2021 'Market Buy trade at Order ID Dx65EW'.

Exhibit C

(CipherBlade Preliminary Expert Report)

This file contains a list of all cluster exposures of the cluster identified by the following root address:

1A5PFH8NdhLy1raKXKxFoqUgMAPUaqivqp

This cluster is also known by the following name:

InvestVoyager.com

Each row represents the exposure that this cluster has with a particular counterparty.

Counterparty Root Address: The counterparty cluster root address.

Counterparty Name: The name of the counterparty if known.

Counterparty Org Name: The organization's name for the counterparty if any.

Counterparty Category: The category of the counterparty if known.

Directly Sent: Value sent directly to a counterparty.

Directly Received: Value received directly from a counterparty.

Indirectly Sent: Value sent indirectly to a counterparty.

Indirectly Received: Value received indirectly from a counterparty.

Counterparty Root Address	Counterparty Name	Counterparty Category	Directly Sent	Directly Received	Indirectly Sent	Indirectly Received
3KSggJwfH2uy21Y6SrTboUcxgDd6	unnamed	s	0.002531		0.002531	
3MxXs3Z3TtRQZotq3oE5Vp2n4hH	unnamed	s	0.004181		0.004181	
13i3hvDAALJWtxKL5S9SocdyaN	unnamed	s	0.008139		0.008139	
1PykLeAtdXu9tzWjN4B1y93nnNiG	unnamed	s	0.001722		0.001722	
3LgybuU6fwZay74qhvJzY4feKQqx	unnamed	service		0.005		
1JD8a6jkiesiAkoGUAMB7FxDqqs	unnamed	s	0.00409		0.00409	
3BrtXDKq7YysMs9SivgSoP4EN6vG	unnamed	s	0.019302		0.024302	
36ybwtbpYhfRrkEfaPpUnxrSYsXoA	unnamed	s	0.061631		0.061631	
1FgkypgnEqHjrViw6m2Myv7S62m	unnamed	s	0.0005		0.0005	
1BYrY696S BitFin-Profit.com	scam		0.005684		0.005684	
162a8SgmShEdh6seVP1hSh6oY1y	unnamed	s	0.001738		0.001738	
3AdZb32ZCdqtWvwTKbeHmLZiykr	unnamed	s	0.013127		0.013127	
32D3o5Q3JVZ3qWAtjB665Sqt54R	unnamed	service		0.015		
3KVоЩaPEdZLJFCzz9dyF2nw7rSapj	unnamed	service		0.155		
3Ea6vw9XPLg6jLaFRFPQUxB2djXo	unnamed	service		0.005		
1FiMEvYs5zXqjzwBVNwArz1Hnrith	unnamed	s	0.000863		0.000863	
3CbyFS9xijj Beurax.com	scam		0.206399		0.281399	
1Jb54NRHcA17ZhAWb4EEiNTeMN	unnamed	s	0.002406		0.117406	
3Lcb5Cxpty Vinex.network	exchange		0.043072		0.043072	
3K1hRk3K4DsDDRFVSAxDZSUTqfT	unnamed	s	1.300505		2.045505	
1KK6MhmvHWftd3BAvJPgDyHqCs	unnamed	service		0.01		
385FJC2fQDHANwrB18X745poKw	unnamed	s	0.133792		0.143792	
3EguRmvKEELoypUBzq9cKfX7pRei	unnamed	s	0.021141		0.021141	
394HMlw5ZnfqgoDD2PhEPhgKy5t!	unnamed	s	0.125		0.135	
11eeMB2t Bitnuvem.com	exchange			0.26		
3HkevfL5iYNRsiyESQASoGmE3isF6	unnamed	s	0.049117		0.074117	
14dr13aqq Coinmotion.com	exchange		0.028076		0.103076	
3Femjk716ctbFKmFcoErA2skw9D	unnamed	service			0.005	
1EjbxKiFf2FmUtVKD7XFvXLxpw8P	unnamed	s	0.01045		0.01045	
19rHumBr Midland City Market	darknet m	a	0.001278		0.001278	
3Ag6VSUcWvPDJ6Cz82TexMFS8tE	unnamed	s	0.00621		0.01121	

19vRqiFxFL MercadoBitcoin.com.b	exchange	0.001264	0.246264	
bc1qxg08npzk9wt5yddvtxsgrhqv9	unnamed s	0.001696	0.001696	
1DQoyyxYyK1fyjmEw9LFi81NSKh4	unnamed s	0.011891	0.146891	
31oYFVAkc2TZHfrwXwjmXNf8zbD	unnamed s	0.047222	0.052222	
18XtLeuQmWMq3XgekzDD7F3fYjl	unnamed s	0.012919	0.012919	
1Hf4X1wv\ Bitflyer.com	exchange	0.008497	0.573497	0.365
bc1qq6z7gpa37r7m60u7nye494c\	unnamed service		0.005	
1HmRBNkikqjm9AqmHgVSQ8qtnF	unnamed service		0.005	
14UpoWT2fAzGqR9EoJc9LnUtinz	unnamed s	0.002728	0.002728	
16omr5mMRbCM5U4PXfgp3ttsdX	unnamed s	0.147442	0.157442	
36pGw6RKDajFYoo2CVtd3ffLyoQy	unnamed s	0.005012	0.005012	
1PuxTMpMTp4PfaP3z59mHGb5u\	unnamed s	0.006358	0.006358	
17dPYT2J8\ Bitkan.cc	exchange		0.045	0.035
1NvbUHhN SpectroCoin.com	exchange	0.001296	0.011296	
1CGeoGj1mhdMpYSvwotnpDof9N	unnamed service		0.03	
bc1qjjcjgrygxhqzvlls396e5xrv0v3	unnamed s	0.046391	0.061391	
34Q9x8PpgZs4xNjyX1HTvpUuM5F	unnamed s	0.002314	0.002314	
121JKycF49azRNydoTqZ9p6Widbx	unnamed service		0.12	
3Qse8seS95csJzZwVk9paJBSqgL2v	unnamed service		0.005	
bc1qetf3cdykuvvucrnw0209e6nfj	unnamed s	0.001109	0.001109	
38jZQHdF9iRJpUzNq18y3FdbCz3d\	unnamed service		0.01	0.015
15fUHLdSf4foBayDAFVcj73scK3Nt	unnamed service		0.115	
1HYtksnVuYR8KsKrtDcobG25NmV	unnamed s	0.004183	0.004183	
1JojQz1Dat5LgJCRrwsqqtpMhvQ	unnamed s	0.00264	0.00264	
1GvgBV9QMeuoRq2iiaEf3gNB6CU	unnamed s	0.0536	0.0536	
1JpA8hRECiAxLzBdaM8uiW16K2D	unnamed s	0.041222	0.941222	
1NB194ABEPPUF4UYMGoeii1Koid	unnamed service		0.225	
12Qb2WT4DFN7JzsBQ8apGo5fwZ	unnamed s	0.000871	0.000871	
1DEi9qTAa ArlingtonLtd.com	scam	0.001855	0.001855	
179Ns3Bb\ 1xBit.com	gambling	0.024512	0.294512	
1MRT5rtUkEKWoXNhiUtTWYSniV\	unnamed s	0.003143	0.003143	
3EFwE3irdqRTFsoHgLcCmUhkgbd\	unnamed s	1.161047	1.371047	
1DsjMt736 CardPay.com	merchant services		0.005	
3Na9V3JGiwWRGeCmowj3EJFD7S	unnamed service		0.05	
35j4WzbtSdpRtMnTsieoZC68wYRF	unnamed service		0.1	
13bqM6Ty YoBit.net	exchange	0.733491	1.038491	0.025
bc1q2kl0g\ Safir.com	scam		0.035	
19NVo5Tq\ Alameda-Research.co	exchange		0.05	8.41
14f1TYhojqojBamqJ9eNCzdpSNZb	unnamed s	0.012489	0.012489	
1EzCcTzpc\ Unknown - OTC relate	exchange		0.225	1.345
1ESX1mWXE2ghv4rfyzstXmFqkVr\	unnamed s	0.001674	0.001674	
32K9jnJXsh9wGhojJC1BxHFKmcyn	unnamed s	0.001771	0.001771	
1EAMFGeZ CoinPal.eu	high risk ex	0.000118	0.000118	
1HEbhxYWPGfM6PaQFQ4sgYSQ3t	unnamed s	0.0031	0.0031	
33sQnQkQtRg82EXuA5d6azdR6bT	unnamed s	0.027537	0.027537	
3DB9tbpvWaAZ22gDEGeMfaopnS	unnamed s	0.002869	0.002869	
1Jct5NyXebnHvUA2KZRqk8FzJmK\	unnamed service		0.045	

1DrMUEjYWtMpUJ9X68oqwvGpw unnamed s	0.000847	0.000847	
14gWr1t6VfLBym4zcZ2SeGr2Nn9 unnamed service		0.005	
bc1qn0ctl6sv544xnzdkwjsk6nxwf1 unnamed service			0.045
1NvSP3Lhq Treddr.org	high risk exchange	0.195	
1MjSJWvZl Remitano.com	p2p exchar	21.01353	46.31353
1EcvtByUf6 Elon-Start.com	scam	0.0506	0.0506
1Ka7wHSt1 Alfa.cash	exchange		0.005
1JzLdPwKy Bit2Me.com	exchange	0.259631	0.294631
3Mk2v3SzkmEJRAG8pNSk1Nfqp unnamed s	0.002931	0.002931	
14CoNVrdf Capitalist.net	high risk exchange		0.025
35wTyBhul Blockchain.com	exchange	4.04469	11.72969
1JhXJcY99oJY37gH1JWBTSKGsred1 unnamed s	0.001556	0.001556	
3CpaqEr89dMUasjj6m4kpPWxW6 unnamed s	0.016784	0.016784	
bc1qcrpkv7z80pxqaf205yp5x4xrw unnamed s	0.001168	0.001168	
3CktP3eTZGeV9zMatyCv5cDhVjFf1 unnamed service		0.075	
1BPX2UncW7FnyE2Nf8CqFyop26c unnamed s	0.006139	0.006139	
12Cxiy4zoLhv3hr8fw872h6UJJUxP unnamed service		0.02	
1F42xewVc FreiExchange.com	exchange	0.209862	0.209862
353fQtFZ48MqyXKDw17FpAzXXQ unnamed s	0.000995	0.000995	
3Q2FY263h7XgXiWrHSx576ySJXM unnamed s	0.004036	0.034036	
36jhhQoCXNH1nvZmTp8LVSurh6l unnamed service		0.335	
3MohFRDvH92Mw9PFCvVX1SJ961 unnamed service		0.03	
31kzrYKYUYrBkDLbpXaerZniVSykG unnamed s	0.006418	0.006418	
bc1q063ywyc4mcwpuye4jvfp65j5 unnamed s	0.051299	0.056299	
1M6jZJ8jjW Coineal.com	exchange	0.513422	0.518422
3HHmT56SkXfpTEUmyPncf39soPn unnamed s	0.002887	0.002887	
124i2uNuo Bybit.com	exchange	173.4272	196.2372
1GwcJAbjpJdtBevo1C4tKtyfGyhuh unnamed s	0.00863	0.00863	
37s8wLduç AuraeLifestyle.com	exchange	0.06416	0.24416
39G3BQiAv StakedWallet.io	exchange	0.261438	0.551438
3JK79Yk4Yi BTSE.com	exchange	3.649873	3.774873
1DZUvCjcY Daily Stormer	other	0.003055	0.023055
1KjGN7dkJ8mjg3PuvBCtjecYDb9tg unnamed s	0.00255	0.03255	
1CpCfv26FI 777Coin.com	gambling		0.005
3Dmq4aQcmAeixKBG1badoG7b2S unnamed service		0.005	
37eY2X5gn7JrSw3QfzxtV195FLpqv unnamed service			0.015
3Gf7Ubuhv CloudTokenWallet.con	scam	0.008277	0.008277
19m2wcW9S6ma5mdSDFGf5V3f unnamed service		0.015	
113Ax5HTxdGFyFwdWw4EmYTzNff4WFRdZ3	3.288658	3.468658	
3MY9zybuwu7WcnZRjPxWZVbyG1 unnamed s	0.000862	0.000862	
3FvWRe381 MyPatricia.co	exchange	1.117689	3.652689
39z4gP1YPi6SkVmTixmeue9bET64 unnamed service		0.005	
3AJNpmWt Zrobank.com.br	exchange		0.015
1KcqeqlEsWM3cs7Rdsq8JoLwXrK1 unnamed service		0.015	
33yfoJZS9xa2TYCXgeByhiXHYHQ4 unnamed s	0.494846	0.544846	
3E5MLYpK Vauld.com	exchange	8.387635	8.402635
31wJ8Ytxm7MXWroAybXBmT8GS unnamed s	0.00087	0.00087	

1FKhtSjNzzMz9ATDmEuX2GN3Cn1	unnamed s	0.04617	0.04617
15cffdyM4UHBMR47CJkkpM2LGG	unnamed s	0.001815	0.001815
12RUHxG4 StarFXTrade.com	scam	0.064944	0.064944
1APtUkdCYFwMMCmPhxUADn49:	unnamed s	0.002571	0.002571
1MmSy2RGLgXUYwKWwFD2x8f3E	unnamed service		0.125
16f5J7mUPaRzJh9sbrSbCPUYn4rS:	unnamed service		0.005
1HJu4LBAp71bUdsXDVEPq7JXjsVj	unnamed s	0.002013	0.002013
1CCCMgxC_Betcoin.ag	gambling	0.252799	0.272799
1Q1So4svzrDU96HdZkT2RDeUYNl	unnamed service		0.015
3HmLXhZvBaz9hFQ3tpneBbD776k	unnamed s	0.044826	0.044826
16JnQtUUV17LPsM5RKo6gdG2Yw	unnamed s	0.003119	0.003119
1FW2RPc4iAQMgqEu6rs2tEEwz9z	unnamed s	0.086391	0.086391
3BzfahFcTH722WBiATxFzvqxjstwq	unnamed s	0.388395	0.403395
3CaKmrN9tXha3axGLuZJuoSmu5D	unnamed s	0.002997	0.002997
1GF7tb3TeSNZg2Xz8dGMszhT5sgc	unnamed s	0.00265	0.00265
bc1qfn2dralqzvl9kycxkkdqzcwegv:	unnamed s	0.000545	0.090545
15hTqNp3B9CjQkLWS7eyKshpHtJi	unnamed s	0.002782	0.002782
38Tti9yCQvQzPYSKmx1AcfBA4adq	unnamed s	0.000172	0.000172
397TTqd2hWFwqXoyfEz7KRTXHJB	unnamed s	0.000526	0.000526
1CWLNzV2JBbXGiAyG42AayK3gyg	unnamed s	0.05	0.05
16NRbcfeif Wisenex.com	exchange	0.042321	0.047321
3463GtcgsC1P2DpUdAqBSpzFV48i	unnamed service		0.005
3HKgjjtCyyKwm5Xoybeabk66FE9	unnamed s	0.001362	0.001362
33gD2hQPNE8qrMwJZdpHZqXjmc	unnamed s	0.002725	0.002725
3LjsdpqBi8KwysRjGP8DaewZa2UL	unnamed s	0.005737	0.005737
1LQkopHckYPeznXDE7tDZp9Le73:	unnamed s	0.012105	0.012105
1MPxhNkS Eobot.com	mining poc	0.002004	0.002004
12zbMvivw AltCoinTrader.co.za	exchange	0.0832	0.1682
3Ho76w8DEptVVDP5cgBKrSvkYWl	unnamed s	0.002009	0.002009
35UpZeJjPNbmB5118iu6NtVdG4w	unnamed service		0.005
35iz9SjxQ13H1FtJF114hs17tVCuQy	unnamed s	0.003545	0.003545
1NiSnhVnhM6JX4QrsiijaSzTNNzv	unnamed s	0.00602	0.00602
3PATJ4VW Wiseling.com	scam	0.063717	0.118717
bc1q007ktfwu0uvqgp4h2gngsnwe	unnamed s	0.300137	0.300137
1159gPPkk Binance.co.ug	exchange		0.005
3L5TN7azjJ UpStake.com	scam	0.479642	0.479642
17irZp3osf Gravix.net	high risk ex	0.280841	0.400841
12SF14zCj8F2PNgRRTZUsheBy4tuj	unnamed service		0.005
3EpWQ9nC Bestcoin.cc	high risk ex	0.002183	0.072183
12TxTR4HA CoinsPaid.com	merchant s	22.84716	29.14716
35cyEo8vs8E5Bm4VbVf4ehzTsq4s	unnamed s	0.109282	0.109282
19mNAKRWCDNoGgbYzo9nfvvdp!	unnamed s	0.09291	0.09291
3DxoHKwrnpS1rwRYhcxH3tBZDtzf	unnamed s	0.019963	0.019963
34CjiGcV152AmqfKbwrSk2J8LnNjz	unnamed service		0.005
3F7LMHvdCCT4jrq9vy5oksZ3nnv6	unnamed s	2.727284	4.417284
15vvtAvb5xZnmLu8yXsxTjtEwBKoI	unnamed s	0.000877	0.000877
1NZuJQoKWCuHKag8N3Aykv7jjxSj	unnamed service		0.015

36VrhWLeNJw43tfMNho7jYoikcQl unnamed s	0.0019	0.0019
1GqJY68iniK9VZY6j2xoEYqgsdyUu unnamed s	0.000968	0.000968
1J2WpKBXiBqJrqnFCF6bAh8oCbFv unnamed service		0.05
bc1q5cglx06z560gefkwyn590ngs; unnamed s	0.000742	0.000742
14LdcGmSQwBKhcziDxxoUZB8Bc unnamed s	0.059223	0.094223
1GSnEH7JMjA62SeJxjxPDEBdpEV unnamed s	0.00323	0.00323
1iLS92j87aZX3DGUtmLD9rbGqqyc unnamed s	0.011938	0.011938
1PiFCa4SVYtR9t82XSnSn58ZGRdg unnamed s	0.001576	0.001576
3LLCW2mM KriptoFuture.com scam	0.007081	0.017081
372g49ypSjfU47RK1AFqgiFBNhUJz unnamed s	0.004467	0.004467
1N3sdjZLtbH73f7xMotgDAHD1RG unnamed service		0.025
1EcKjT5yFzjkdx93FStzDC5M5ke4E unnamed s	0.003145	0.003145
1PyVpYaghynxVqtYBKAZk8Bh4yez unnamed s	0.001969	0.001969
1EBxfTS1tokmeucXtFCU7JG1jWvg unnamed service		0.005
121SexEkuGG6uYCnaBeJXb8Gzy3) unnamed s	0.017478	0.017478
3EpAoiXkwcQFQWWfZndvFZL9AFi unnamed service		0.01
1NeQRg5N Swiped fraud shop	0.001413	0.066413
3ErJs869cBoqZNpd3RHAfcn9y9r8J unnamed s	0.00245	0.00245
1MPtV8XHfJ7MBfXyq7JVuyEyxLHt unnamed s	0.001759	0.001759
17TJ2fV6xagrE2YyyTqkXbvPLn1bd unnamed service		0.19
3M8a8f27BNsCM7XcFA313DEzf11 unnamed s	0.001487	0.001487
1LA9YnPw2pkUgz11EoYKTMxsQXl unnamed service		0.005
1Ccb4vrC5; GateHub.net exchange	0.853197	0.853197
37Mx5f2WgGYG97TWRKyFe8kRKt unnamed s	0.000719	0.000719
1D8kq4k2F7Rzu17iHmcQBMMmfRj; unnamed s	0.001795	0.001795
1F3snS9Lj1sYXtt77fghA3kz5fV9Mr unnamed s	0.076521	0.076521
15xKBrKaZLsKgnYpMwrvhKsVAdEi unnamed service		0.035
1CidQFc4t5numHzbbXHg3bWKBje unnamed s	0.011573	0.011573
12yWf6kiPrqU48C6j5KecxJrjjdAx unnamed s	0.018229	0.208229
3MoMhpEmP2mnP4SpV1qsAR1Fs unnamed s	0.027049	0.027049
1GyYQm63G7dxMQANFQ3cqHorl unnamed s	0.013877	0.013877
1Aag81N7; VideForex.com exchange	2.869833	3.209833
1CLVSiUM(999Dice.com gambling	0.003904	0.003904
1Je3RohZT Coinbase.co Coinbase exchange	889.8902	1287.124
1DMY9SDrFQ3fAosybLL3XpwUjy2 unnamed service		1230.555
1JpHqujvjHRV5JGJdjYKAr4pTpu2ci unnamed s	0.021226	1523.434
3AXFz8QSg3Qi1fWvfAMguLWrUYi unnamed service		0.021226
1DAUV4wFZ63DWKVSLaogrWVLs unnamed s	0.001304	0.045
3C7c5D6Hchm81vusE2qJvieVA1Lh unnamed service		0.001304
1HKbWwkSCMmthA2Fp8FM4WgC unnamed service		0.025
12joBw5YEPtMWfWit2pvgZqPDyK unnamed service		0.005
3NM4R4pM3t5Yviy3FJGNbKwGYg unnamed s	56.26341	0.0008
113aGtCDKfWK6wXvPMjUXxV8Lci unnamed s	0.0008	60.98841
19zMdBnCUyAAMvdBjXTmVeKFh; unnamed s	0.014935	0.014935
1DYagqyovQdSqhRbKUFQT8hb6sc unnamed s	0.004912	0.004912
17zDJLqWRRJskCrD8sNCjiZyBqner unnamed s	0.015278	0.005
3NeU66QEdLDd1ikdXYgehWA55r unnamed service		0.015278

1HSeAdHcHmRxTkZGfaJntpf7Zjb2: unnamed s	0.003285	0.003285	
1odKLv7nxvR6shxC26gWLsTtUSv unnamed s	0.067272	0.067272	
122iCR477' Elite-Trade.ltd	scam	0.003155	0.003155
1Liw1Ds2U Coinbene.com	exchange	2.882543	3.367543
18vLNrPFI DGPb8yqLw83AbAbMB\ unnamed s	0.0066	0.0066	
1MusKEzLh BTCLive.top	scam	0.005304	0.005304
1H7GC7BB AmazonToken.Pre-Sale	scam	0.049065	0.049065
14t53P6ED9YXdBUHE9qXxmdku3l unnamed s	0.0029	0.0029	
3A3mecxQcTCVjbKve9SwuY9GNQ unnamed service			0.005
3DLFqkBZ41GTpWpSJvyFY3U7piF\ unnamed s	0.086425	0.106425	
3H45wmkc Bitkub.com	exchange	0.024966	0.094966
bc1q8d9vatp6mtmjudz80gw9fu9z unnamed service			0.14
bc1q6dzys\ BC.Game	gambling	0.157601	0.262601
bc1q8jel57nw3rv5qrnvp6h7mn99 unnamed service		0.01	
38FjsVydcz1GkWt7iuwnNwYAi13a unnamed s	0.002004	0.002004	
168R1FXVqf2TzkeoMJhp1JmucH8 unnamed s	0.00049	0.00049	
18NPK9bY\ Livecoin.net	high risk ex	0.256741	0.261741
12omJJvXH Bleutrade.com	exchange		0.005
19th5ZHDL CloudBet.com	gambling	0.114411	2.399411
1QJq6ijjdJG Empire Market	darknet m\	0.781639	1.281639
3Dbm1wfXfAFDGAYBhc7jSUQWv\ unnamed service		0.01	0.23
19escNLnnxu79UwWstvK8SzJ6cm unnamed s	0.031885	0.031885	
17ZRfRZWhVp3u3HwQTRaWMfH\ unnamed service		0.39	
15hWy4Nyh8bBXawCV4QzwRzN7 unnamed service		0.005	
1J2YZZSXtg Cryptology.com	exchange		0.07
3LguepyPyQE7833KFGnV9pzpeVD unnamed s	0.117519	0.117519	
14WiqWGMvU4H32WeYjp3AiUfw unnamed service		0.01	
1CTFTyyneq9ofLne9xcezhij8KDEb unnamed service		0.02	
1HBZRbfjeI HitBtc.com	exchange	11.64504	31.11504
37BLgCy5V98kGpqe6ci1ed92KQN unnamed s	0.003369	0.003369	
3AHNxn6JjquVC8rt9UZpwzM8aQ\\$ unnamed s	0.000906	0.000906	
15qJAUM6 Cex.io	exchange	1.427466	2.022466
398qEvFVdtDtwQQFdb2ptYxeVv\ unnamed s	0.00817	0.00817	
1CjHmWuL ElonPromo.site	scam	0.4385	0.4385
1CXYZfSWAtCSfrKFs8eU1m84QLK\ unnamed s	0.026093	0.026093	
1B2wJ1SzBAXyckeePp1VNNbT5VZ unnamed s	0.001776	0.001776	
3LEzCADJy3X6WXm5tj6HFzzX7iEq unnamed s	0.000857	0.000857	
3BPn61WgCmm2JJLem2p1eaC26\ unnamed s	0.025787	0.025787	
16JUCv6zyvS78aHLAFEs\ 1oSMrdt unnamed s	0.004378	0.004378	
1KqeeAVt7HcSK4ocKqGA64to1ru/ unnamed service		0.035	
1HuYfoEws Hydra Marketplace	darknet m\	0.034837	1.029837
3B7F7REEhyGtPRsS8zdYzRq66zAQ unnamed service		0.015	
1Bsdb4iBSt FoxBit.com.br	exchange	0.013074	0.098074
3H7i6icC4ua2or1a32AU5msdBG6\ unnamed service		0.01	
1698egyYuADhAtt7Kcsz47oCPteP\ unnamed service		0.22	
39DrcLmxsdEfVWS86Tvpyisqq3hzD unnamed service			0.255
37WyeV5LbEEMiWHp8Sm4xr1XK unnamed s	0.0011	0.0011	

3AsRcRph2ANSMBFZbe3iruvhHBn unnamed service		0.005
32R2m6rtqnKvfMZKCRi1cVSZMKE unnamed s	0.06574	0.06574
3Q1yv3FPwidMsuekuDjoGFSSFy6c unnamed s	0.0067	0.0067
3BHgHKMY ToRReZ Market darknet m	0.003491	0.003491
1G5ZVFw9Ak6ts44XiArmsqd78Jm' unnamed s	0.095065	0.095065
1KNFUJjZwyqrCqJxMA75oEmassF! unnamed service		0.03
36Z3Cd1qF FEshop fraud shop	0.092424	0.692424
1KWpsFjwr EconexFinance.com scam		0.01
18Y3ffhhMS5rkDZQwMZ2aN8ACz unnamed service		0.01
1GKiFE916n3mU1RyqWenoGQUr unnamed service		0.015
355JdiX5QQBNW2jiokjT1xxk3YP1 unnamed service		0.005
1NPSDjysK8nm68mQKJ7AhGxPtk\ unnamed s	0.017427	0.017427
38KjUnGi8\ Coinsbit.io exchange	0.004891	0.004891
1G7937WrZ4KHa3AhvvrYkBKdW1 unnamed s	0.060997	0.095997
1NDCSqdKPERcdxYGKsNvtDVsU2r unnamed s	0.001079	0.001079
1Nx3oh3jT WestWallet.info exchange		0.06
35GVxD3jF OptionsFXTrading.vip scam	0.892395	1.392395
3BL9PC94T SFOX.com exchange		0.2
1HNfamjXpMLnxTfr8J1Q1VAjx7Z3 unnamed s	0.002172	0.022172
1D16KGTvvECtc4gKgVs1TAJN8Gqt unnamed s	0.000655	0.000655
bc1qng0keqn7cq6p8qdt4rjnzdxry\ unnamed service		0.09
14WpM654m9j2eh1arN6Upjh5eb unnamed service		0.7
14gr6v7DG BitoEX.com exchange		0.055
1KEWFoWI Paxful.com p2p exchar	57.74189	129.2519
3KbYbsN1WwT4jkBQ2RY8aUZPPy unnamed service		0.005
1C4FLuYdMqESCbpiwczVKbAX18 unnamed service		0.01
17vBPpPvXBCGDRfH2oGCdZDNhe unnamed service		1.06
3B7iKViieG8DPmAuXvf8ZWfDiWy\ unnamed s	0.005906	0.005906
3GgsGDPJLeuMM6Zt4JzYyEEpAe6 unnamed service		0.015
17eze6HytVVsqM7C2B49ATVwzol unnamed s	0.916947	0.916947
1CXie74CX SeawestInvestment.co scam	0.002796	0.002796
37G4fC53K78D7sgRxLeN6KFND41 unnamed s	0.0006	0.0006
1CzFdBA2J8QiMGoPAMesy4rdZ2f unnamed s	0.00214	0.00214
1B6zrz4Mv CryptoMKT.com exchange	0.001324	0.006324
19L7WYjGE7jETXwJVGPd9cGWm unnamed service		0.105
19TFfjaD7WthoUz7BGTsLvLoPZtD unnamed s	0.000833	0.000833
1BhrNoLRT Bithumb.com exchange	0.1059	0.9859
3KBLNCwkzNpmC8XxbkZTrijZ33Q\ unnamed s	0.024501	0.024501
1NRg2fKop Tidebit.com exchange		0.005
3Qxf62B71sAqgDyDc79mgPR8nJ2 unnamed service		0.045
3AECszbNdqQwzz1wDZNuub5CF7 unnamed s	0.0041	0.0041
15uEE1xAKNxNZPYgHNEJxTDzan9 unnamed service		0.005
3EQ1xgW2foofBUp2gJkwMVuLrLy unnamed service		0.03
3G6Wz3i77pQtxwBkFnmwUB8kjB unnamed service		0.005
38Pfhwy08hw2vg1eVqnMXM9DLi unnamed s	0.000323	0.000323
3Dn7BUBo GoMiner.co scam	0.001442	0.001442
1KwtFvKNmGHNX5aWfH6ogPAyq unnamed s	0.487161	0.487161

1BdAqLhjjc Musk-Club.com	scam	0.40104	0.40104
bc1qxqhtp20s4j4ua29qv6masyjc unnamed s	0.008559	0.008559	
1442itHWUtp9FbE5VeUVyvQzv8b unnamed s	0.003286	0.003286	
3GcQ42tBDCDMAg2MKNmSStmxl unnamed service		0.005	
1BAigaKGG468tsUJBLETJbSNH3P\ unnamed s	0.003442	0.003442	
13TgM433kFgBehJa5Hw9fVKyogj\ unnamed s	0.000977	0.000977	
1BKUDP7P3BANXKvepZZpHmTe8\ unnamed s	0.003137	0.003137	
14DEd7DgI OctaFx-Plus.com	scam	0.000933	0.020933
14odDnBY\ ExpertOptionsTrade.cc	scam	2.015765	2.015765
1JK55ZVPo7WJH8PAWD8aTuaAb\ unnamed service		0.02	
13GPxKdmoP3Tq1ZeJSgAgnMyjRJ\ unnamed s	0.003498	0.003498	
3LLAzeRnwEqiX17Dyrbd2iyjF9Sghj unnamed service		0.045	
18BfibyUk7qS4dMFZg9Cf3wgRtqc unnamed s	0.001801	0.031801	
1MwhHrm9LMVsKkNodh9CYySbKib unnamed service		0.01	
183WYfYQdd4mAF21S82vC1SDDr unnamed s	0.004783	0.004783	
bc1q4rrcw0gw6y84w6uqxacqn0v\ unnamed service		0.01	
12CFVXKJK99gW4vZ6wAqmeLb6l unnamed s	0.000926	0.000926	
3GiZBFW6\ Teqra.com	scam	0.002671	0.002671
3KtcLbsqgEgUubmnXLhZ8CropGp\ unnamed s	0.018211	0.163211	
1PiKBAfcw6xKkqYAAertGKab8zF7E unnamed s	0.002888	0.002888	
bc1qtn3tuc5ewtcg5zI79aq4rz3szn unnamed s	0.023361	0.023361	
3LMcPvssJkYFstCT8MTJzVPea2KF\ unnamed service		0.04	
15nwSE3WcHmLK6K3ktiPfwS1zo\ unnamed service		0.035	
14se6sTpkl WebMoney	merchant s	0.000111	0.145111
1Etg6EySY\ Bibox.com	exchange	0.185269	0.190269
bc1qg5332 Bitaroo.com.au	exchange		0.01
bc1qxswl0w3ze7y88qv36kql6l4t\ unnamed s	0.040956	0.040956	
1P1jSNXCFW9Sh7h1aoKGgbGcz3P unnamed s	0.00219	0.00219	
1Pc9Us837mned5bUJMwyscQ1H\ unnamed service		0.01	
32MANDY8 Bitpick.co	gambling	0.003	0.003
19jiKT196vokPdpD5DzUfEvmQ7o\ unnamed s	0.003908	0.003908	
19FoUSdvz7ndkpezcPoumiHkHyF\ unnamed service		0.005	
1GFktGPAF6dMaQg12vDfdhXLWV unnamed service		0.005	
1GgPJQMx6xU4evFXfswMCmmiN\ unnamed s	0.00338	0.00338	
38S2uvBetbaPUavyaqWHXeEFbD\ unnamed s	2.049369	2.484369	
3EjZJ3fpql Rekeningku.com	exchange	0.05	0.055
1Pwf9exMbhAA4KzBYrXGZyLAKek unnamed service		0.02	
18eSmT2YFHyas5x8jkLtQyk5YJ5Fv unnamed service		0.035	
16sPQKdVwnxEvxsKFLFNR5e7mDl unnamed s	0.008855	0.008855	
3Cgy1PnwtFmD4LXLXPzt9782Y4vl unnamed service		0.01	
12cF3wQSYx37ee79X7qjFQ5wmS\ unnamed service		0.015	
1BC9mgLV CleoFXHub.com	scam		0.005
17RSWTeHeFWCXGPHAydsFLvCG\ unnamed s	0.001165	0.001165	
bc1q7j4xayw77ft8njlp3tsfvpw48t\ unnamed s	0.00959	0.00959	
bc1q2fnvqlw9s4flmwk7vzr4v9wfn unnamed s	0.049562	0.049562	
346n5U6aKz5JWrVK6A671Rpn8o\ unnamed s	0.002365	0.002365	
15ZxC2mNTUB4E22zCAJMpcvNR4 unnamed s	0.022672	0.022672	

3NMnsWR\ CoinLoan.io	other	14.28964	15.01964
36p7DWxCxpZp3dYRHSgqhmtSsWF	unnamed s	0.018147	0.018147
1Jz1ANtnV	BitcoinVideoCasino.co\gambling	2.007878	3.197878
1GranReBz	GlobalCryptoKing.com	scam	0.015
12goKPWLVNJhce9qDEAW	evd324	unnamed service	0.015
1ER1ESxi6X9Bv7VQD5RFw	TvhPhw	unnamed s	0.006589
1NguZ5YEEhjMUTNp	TvKtCHZJHSK	unnamed s	0.171811
1MbXnacj5	FXTradeProfit.vip	scam	0.000436
17gHFWmBUrBixLNjpqEbCYVfMH	unnamed s	0.049218	0.049218
33oNWczvUPgDuqo3NyS96Hyqbii	unnamed s	0.040931	0.045931
3P6Dd2gQ! ByWare.net	high risk exchange		0.005
1La5QRou4JZFyrBV	BmqkuoD5bvjf	unnamed s	0.004146
1DCJ7t8ysYB92juX8VqVaJa7BF	EtK	unnamed s	0.005312
3321qzvP2	BTCTflash.me	scam	0.187652
3MYCaHPXKw8YHweBfmjBglMhD	unnamed s	0.055756	0.055756
1Ajd4m1Nb6iGiX588M2qCFV4RUj	unnamed s	0.022087	0.142087
3CPiT9VLGK9X7Kc41AKYyWT5H8c	unnamed service		0.01
3LCoLHNYcsKoAVLEzibka9Lvmjn3:	unnamed service		0.01
1ENJDG6MoBRfHBX19Yn5eCZzoXl	unnamed service		0.005
1RgeNNGZ8m4n1hRAi3iAjpQjnoG	unnamed s	0.001041	0.001041
3NdZd7chx	Giottus.com	exchange	0.11
12B2ppiXfrTRk13QAr35cVySi4tUo	unnamed s	0.004198	0.094198
3N4m5ioB\	YellowCard.io	exchange	0.067575
12hoyPobzEmj8rxF8skn5H3ek3Fkj	unnamed s	0.069264	0.079264
3QLHTaBBkrKrS5Tt85kd2iQUP183	unnamed s	0.003743	0.003743
197LrsSZcHMQ2wukiuAosEEK48Ll	unnamed service		0.005
3JQTLBLX\	BitQuick.co	exchange	7.072577
bc1qfe8pp\	DropBit.app	Lightning	0.01
121HHSacn	Cryptocom.pw	high risk ex	0.005
1JGRTExZRxAZHt7QZCZdSukBqM5	unnamed s	0.064818	0.069818
1DRvxdFU5DLQv6MYkzzkB7t4J8L\	unnamed s	0.008215	0.008215
1NE1xVxuzSJASoBRU8CaNgoqqXr\	unnamed service		0.01
13JtX4h7G\	Exchange.Cryptex.net	high risk exchange	0.005
1MSTasGFc9XPN36TssLozSwRW1l	unnamed s	0.004296	0.004296
19iqYbeAT\	RenProject.io - RenVM	other	12.45032
3ABepmW\	CopyProTraders.com	scam	0.044105
1Go5qmPz4pzCTEL5H4UH5gkCnD	unnamed service		0.005
1L7hZ7ncM3onMs6oty5ohbFfPUg	unnamed s	0.006576	0.006576
3NtJc6yRD1DBfsxrC5VP73Fa5fuNz	unnamed s	0.208615	0.548615
35q3fryhJpUmoeZaXvQEtd7dHbH\	unnamed s	0.016479	0.016479
1Jqmh33Pf6po1HTM5peEgj6QAx2	unnamed s	0.0097	0.0097
1CEBcvRrGcCThW7MHbqXRgYoxH	unnamed s	0.007382	0.007382
17MdDBu93j7bCJKhj9FWrXP5Sw1	unnamed service		0.245
16SgvDKfVwRitqF2wv4NSAftBgoj1	unnamed s	0.001776	0.001776
1Je8kGRrvLSYtpw3Zoz1kgMn6J1k\	unnamed s	0.000286	0.000286
36hLx7Hjs\	BitcoinDepot.com	atm	0.00801
3Db6zpH6z2ZFVqvGZKF3vnhXuV2	unnamed s	0.002486	0.002486

1PdM15nA3qg6RbxoTCVxPT1XQ5	unnamed s	0.11647	0.25147
3Je2ok8WUpgPPZdbKUoFUmsntr	unnamed s	0.376403	0.396403
1DcyocHCP9nMgcn145U9BHSfb6	unnamed service	0.16	
1AMjD1Yw CoinPayU.com	scam	0.005	
1N2ormmr Koinim.com	exchange	0.006184	0.016184
17tm9ypqyLPUnk13d7y2ZgP6WEr	unnamed s	0.001735	0.001735
34r3oYgabuykUhcnHMRMiVad4G	unnamed s	0.055	0.055
1NiYwTUA1VinDAX.cor VinDAX	exchange	0.006615	0.011615
bc1qwx59ace0vaehtfsnp0ye5zd7y	unnamed s	0.002927	0.002927
13SfTc3XLfRWLnYmYgo29GB2oVb	unnamed s	0.00496	0.00496
191PjzSym Xapo.com	hosted wal	0.00286	0.07286
36EmADcN BitBuy.ca	exchange	0.06	
bc1qrusa3x3mwujpdqwev4x2vujn	unnamed s	5.680528	5.705528
1B5mJUCwTUgMFZXbnCfaLdvns9	unnamed s	0.001986	0.001986
1zua5BePTtiaWGvtvvCzUtq3Mmy	unnamed s	0.284678	0.284678
3Berf76BcE TrustDice.win	gambling	0.008136	0.008136
39T11aHoj5iwXWTWJJrQTTEKrurJ	unnamed s	0.001656	0.001656
1Ki8bhQKWLQAbdtxZJqE2kj6mGX	unnamed service		0.01
31rfNmmts4i FMACrypto.com	exchange		0.05
3PyzSbFj3h Blender.io	mixing		1.08
16pQuacyc Evonax.com	high risk ex	0.00237	0.00237
1BNoSbJ9Ne2aDKhSwFFP2ENbcgC	unnamed s	0.00674	0.00674
3AGtKhGqffg538CMh8qhV6hFJdr1	unnamed service		0.005
1743dgZzH Cocaine Market	darknet market		0.01
19qupF6m' GOPAX.co.kr	exchange		0.335
1KeqXqj95GiDEpmtrKzQF8abmEw	unnamed s	0.0938	0.0938
3QFMCkmyycEJA5y82zRrCpNtEN5	unnamed s	0.004108	0.004108
3CJYvCG4d5hZu1RC9ycFKYiYwAu	unnamed s	0.020408	0.020408
bc1qp4m3wg6qny88v0teh8p3j7sz	unnamed s	0.055201	0.055201
18ZNfUjeYN5Fh92hNYwjvtMzFBK\	unnamed service		0.005
12Hebgk7x 24PayBank.net	high risk exchange		0.01
1ChBJMSW Yalelodge	fraud shop	0.023184	0.063184
1PVz2FTQkjkAexJqqSie3i2X1N1KN	unnamed service		0.005
1F1GTNnrmGLQ3bBxoYijVm4eFA\	unnamed s	0.041384	0.041384
3JHJAewVUJhTRYF6HytSs80dsqG9	unnamed service		0.02
3FZ3DqMNDMTZcgjex7pkP5Adpo	unnamed s	0.005857	0.005857
37ws6CJFbmUqdc5UdjAxevdwad\	unnamed s	0.081616	0.081616
17vMaz8pnndW6wUxfy7CVpr8tQ	unnamed s	0.038423	0.038423
3FigERo2iqUdY7c3nY9a6x9YaPSsn	unnamed service		0.015
3B6q4bvFQtoR84X1yyxi74aMMsz	unnamed s	0.002505	0.002505
36KdkXo55P3WzfvyQCRA6pRDdl	unnamed service		0.005
38QH828LzsVMRWHkcP5mf4wuy	unnamed s	0.105612	0.150612
3B25Uifra6BxPN6yj6LYQjNDe2KZr	unnamed s	0.015	0.015
bc1q4azldze0n0htde0jkym8zs7dp	unnamed service		0.005
37CA6TPbcikkRGVpBBfBxXsxmZH\	unnamed s	0.011477	0.011477
3HSZJiZF2\ BitcoinSuisse.com	exchange		0.165
13NECGLY6duFHdoCqbzpWRjMg\	unnamed service		0.02

36P5ngZze	CoinBurp.com	exchange	0.6
39XRvESytI	GreenGoldOrg.com	scam	0.001689
3HqMYtDCGTbgKyaP9DogqpN1XfI	unnamed	s	0.001849
1FhnVJi2V1	Globbee.com	merchant	0.029823
1P22TqPn2yhV4Tk7K3tTytNQE	CR1	unnamed	0.000954
1HCNB24vmD5B2RGDuZP9rStq4N	unnamed	s	0.002032
bc1q5hkq58anwmw2zxg33zx4c7v	unnamed	s	0.008025
1CoP3Dqm	Liquid.com	exchange	0.825054
1GyGRHHtI	BitAccelerate	Bot - Tel	0.060063
15XhTzpongsw1k	dma9Dt3cwYL	Ac	0.055
3Qr7HXHLXmkMDZSgRJ3aEcMu2s	unnamed	s	0.011144
17MQEgrJdAMovN3AQHR1B	g32c!	unnamed	0.055
bc1qazjlwl02y365tey9njs9y52jd6j	unnamed	s	0.224906
13XetodHE	OXcoinTrade.com	scam	0.11903
18oXDgtUC	BTCPop.co	other	0.025
16dg3u7sg	AEX.plus	exchange	0.000719
3J7BigJrEyCaVnjvYr1kj7x7sq	astDT:	unnamed	0.007999
1KYpxfYhHkRteo6UAhQuZTfiSmV	E	unnamed	0.008294
1PfPgv1Ctw9qcDbLqVY4dvEvi7RJ	E	unnamed	0.04
3PPLyoz9RrcQwF9a5z7TMVHBvU	€	unnamed	0.01
32H56MzPqwcFxbUhbeZL	lw8PFL	unnamed	0.005656
128cK6pbRvUvc	s2rKiN44hp	mqhm	unnamed
3FxqMkXrfG5Zvq8AMZFYfTV	AeizE	unnamed	0.01
37gu9tx2R:	PayKassa.pro	merchant	0.410001
bc1qu20xvkafqnmp4y	quu5ep40te	unnamed	0.005
3JUWNcHsC4pMt2gW	VojXJZdr4Hj	unnamed	0.00207
1PzKM3mqSrFs2i3VwrSy	JKrhxHV	u	unnamed
bc1quctdcx7r2wdc8n2y5fsu7k5qa	unnamed	s	0.001595
3LBECoiLA:	MEXC.com	exchange	1.90721
bc1qpuijnc	Simpledice.com	gambling	0.005368
1DyRGJQZZMr9LxRFXHq5AZ4g	opc	unnamed	0.045
1L46MWS	§	Coinbase-Invest.com	scam
3BmqiQW	C	ASAP Market (former	/darknet m
1FzuVAnLatnLTVWKw	ST56EH9ML	unnamed	0.08
3CagMKWWAL24418SLt2m7R5d2	unnamed	s	0.000559
3NX38yr5Z2yK8umhQF1T6EZ	sx37	unnamed	0.007532
1E9xCCVtp4YYs1k2T	ZpfZoHwCj9r	z	unnamed
13r2KrPtx3	BinaryCapitalInvestmer	scam	0.096472
16Mgc5qcmN6cXo2W8D	foGU	FuC	unnamed
1LoPpzxjYi	Latoken.com	exchange	0.01
bc1qn8sydr	t2d0fnjus92806z8cgq9	unnamed	0.0006
32yLGhuPbNLHHeVZxL69g	m	gmmK7	1
1Jh2n4mN4GME	ZeWymWP	ktv	7
1yDV7xr8J6RmW9fjMP	C	DhfZW	G
34ajCErvsK6h97mFhJsF	skvdaR	sG:	unnamed
12ofW4F4r	Foundry USA	Pool	mining
14goASnR	A	PrimeDice.com	gambling

13k1etwVrkWYN35ueX66ss3ivKZA unnamed s	0.040148	0.045148	
3P7uhN448wjWU5fZic7AANUhfVy unnamed service		0.005	
1M1M2HaDBF2PVwMbJukKJFtDf€ unnamed service		0.025	
36o6d2iHEQdJxpzqjGcij2SQJWLKY unnamed s	2.141481	4.771481	
1JaLcWmap1HnLMTpwWkG1f7Qg unnamed service		0.005	4.12
1JSJRkGnfR BullionCaste.com	scam	0.318903	0.668903
3Duw4T3geYq1frTuXbBiEfW1UNN unnamed s	0.002644	0.002644	
14U8A9yGJDmpByS9kWvk82no4h unnamed s	0.058952	0.058952	
3Fnc7eTX96qjw4YzLsMJFsU9fxLqk unnamed service		0.005	
1HP8zxMcHpJra2fb6Ddzkrosg3tcs unnamed s	0.39492	0.39492	
3GCLkEZrh The Bitcoin Car Donati other	0.0058	0.0058	
12tFuSuKDk1CR7XvgvPwAiTd17s unnamed s	0.109802	0.124802	
1P47mpmKKj67vCpgib7tJivTz9udF unnamed s	0.005273	0.005273	
1BZ4USfEerEuLhqwVKuwzMorVTz unnamed s	0.03147	0.03147	
3CKsPQ1Er Godex.io	high risk ex	0.23113	0.23113
bc1q9enrza20zjqr302df4agevxljqn unnamed service		0.135	
3FxfEtKfYKgz61QNNx4DMnYEyej5i unnamed s	0.013043	0.013043	
1K89utgSq SquareUp.com	exchange	120.7871	154.3921
341W5WrcDa1M8RLyb7DUwsQn1 unnamed s	0.006144	0.006144	0.17
3K2iuM5PQMgM2ianMLDBZ2oSqi unnamed s	0.748761	0.778761	
38eCSzWRXeghcaJEY1BhaQEaHmc unnamed s	0.011354	0.011354	
bc1q8dqdyfud5na8ryty4q628034€ unnamed s	2.850031	2.955031	
1zJRsua5jXyX5fCbqLC5DjZys9Hj5B unnamed service		0.385	
bc1qsa6gyj9psa3v707j7tphud3z6ç unnamed s	0.000481	0.000481	
36Z1K39LTaZaC6XHQbhM92Z5pB: unnamed s	0.000362	0.000362	
3Ab4cehZYKhx5r4vbi6v4fWoTvvh unnamed service		0.005	
3Misi976Ud8faCrU5SfoMC8Wq84 unnamed s	0.003059	0.003059	
1Czvo2Gkb FreeBitco.in	gambling	1.741254	1.806254
1LYXP48FWgFvmQqFgpkfCtzmdCł unnamed s	0.047481	0.062481	
bc1qhttdmq9v3d6ywgg8nfqkrsan0 unnamed s	0.018729	0.018729	
3HzHfCBRN ChangeInvest.com	exchange		0.07
3DzNFQR7 Tradefada.com	exchange	0.002629	0.002629
3PxYm8wPutj7KEubsSebDLAoe4s(unnamed s	0.423321	0.768321	
1NRUeiLZujLqPSMQ1WzgpKCPzgg unnamed s	0.004829	0.004829	
33D2jUTYToowhpw2hTre8syTYQs unnamed service		0.005	0.11
14Hqh9kNI Nobitex.ir	high risk jurisdiction		0.08
3CnA4MRA1fqdpCgZE1APYtFfvRy! unnamed s	0.000399	0.000399	
375SdyH2umuw8EZHf8ABu1HsFrC unnamed s	0.045703	0.045703	
1Dh2CgsWPhzeXRZMy2sHi5s7qTC unnamed service		0.025	
1CNC3CmRuGqzE9hgGWT9jCrYkN unnamed s	0.004752	0.004752	
12FWooxN CoinFalcon.com	exchange	0.013262	0.048262
39zvdGPD1hCU8UNAQp7nvQAES: unnamed s	0.002945	0.002945	
1JT5jdLVi1 TheRockTrading.com	exchange		0.085
17Y3DemnjrwPAX97buo7Rpbt2 unnamed service		0.005	
3HCK56Quf8CPNTLsW1GVRQAAKj unnamed s	0.008325	0.008325	
1N8GfnsvPNEyPDNRdQBDWcdipV unnamed service		1.52	
1BPt1bzaRe3V6XwNv9z8tXXz8QaI unnamed service		0.045	

1ETc54xRn CoinJar.com	exchange	0.039164	0.234164	0.005
3KGC8KcRf Flugsvamp Market 3.0	darknet market		0.02	
3K2o1qtdHyyD4AaqMG3otAm9Vl	unnamed service	0.004161	0.004161	
1GCWCC5QT75NSMkSfiGFpsJzQw	unnamed service	0.003807	0.003807	
3N7XVinYzKsjhRvMXSVn4fnACkkh	unnamed service		0.015	
1FcWT5Sol CryptoMixer.io	mixing			0.005
129Yjpo2p63JBM1s6us1jAnzWWA	unnamed service	0.008061	0.008061	
19HYmB7upgUaxnapD8DmKx6Wc	unnamed service	0.066793	0.066793	
373RbApztVg9igMmfFNnmmBptrC	unnamed service	0.052227	0.062227	
17v65tNqx LiteBit.eu	exchange		0.045	
1EsdA8KaFBGqohcCjTcB3M5a9dh	unnamed service		0.12	
bc1qjutl44yrhe6wqfrc52jp7w3sdy	unnamed service			0.01
1GuMujAB AntPool.com	mining pool			2.115
1ArHiMPzv SSNDOB Club	darknet market		0.065	
3MZFP5Hqbij8CR5AKbLmvRuz83C	unnamed service	0.00508	0.01508	
1Ec2JU8ToPXeX1vGoEkR4ejpWgc1	unnamed service		0.01	
1126fkM4€ Binance.je	exchange		0.065	
1Ejsa8U4jjuNgMS9qb9JAM7qeWB	unnamed service	0.006941	0.006941	
bc1qzqlpxg9due6phjt5upvy9qkp7l	unnamed service		0.005	
1PRg4bUMB3QdARD9N1qfG3iq5X	unnamed service	0.003077	0.003077	
3BqMbaCYarXvhri28FBZseY3hBL	unnamed service	0.005139	0.005139	
1P6MeMrJUhcQphbeQT7uTbkbYA	unnamed service	0.000802	0.000802	
13ncBFc7EhyNnT5AYyXouwNzUeC	unnamed service		0.105	
13nCMaHD GSPartners.global	scam	0.79746	0.82746	
31tBiuZ6WcjrdCYg11mcBPMVutW	unnamed service		0.005	
bc1qwwkc4nw63nzek3wr4x6j99w	unnamed service	0.009416	0.014416	
1JHTsnS7zyMyChDV1XvVoL1HabJt	unnamed service	0.001342	0.001342	
3HAMBUqf Unknown - OTC relate	exchange		0.025	52.19
3MqUnpfPpAmvWZyd3BycWphjyl	unnamed service			0.005
34KQjD05EoP1SSCk8UNbdbqpUH'	unnamed service	0.001052	0.001052	
1U7nVxh1wGCTD4xQgJXTny7AEpl	unnamed service		0.16	
1DHTu3YHi8ZphihaYuxWTGt2Wpf	unnamed service	0.002034	0.002034	
3NNGadtjjl BitOasis.net	exchange	0.000169	0.000169	
3K1zFnQjAVdtJyGBjVkiUqThwR71:	unnamed service	0.007191	0.007191	
3Dhk8F6KY Bitcoin.DMM.com	exchange		0.005	
122bzJbCvI BitcoinPay.com	merchant	s 0.221439	0.346439	
1DXgw2BJxFarAMvbpf0MJKechan	unnamed service	0.005201	0.005201	
1MW6eDvcZFmoD4FM8mBGU3Tf	unnamed service		0.01	
15kM2RpP EXMO.com	exchange		0.035	
3Qjmwe3rI eToro.com	hosted wal	0.635284	0.640284	
1KZsuMNtG6mkAMDUzNaitmim5	unnamed service		0.355	
33pZruiqn795WbpwMmMdpSRLP	unnamed service		0.005	
3GknBr2Y7TKnNkMPhV4eHfDKd6i	unnamed service		0.115	
17voRCsbm7vngQJuCeZAY3gfVtHl	unnamed service		0.14	
1MRC51rt4r7F1uQ8zXt4sPtkf1NsC	unnamed service		0.01	
3MCiYiEWUmgawUEZ1sxn7adUC1	unnamed service			0.06
16scbXMRBs7MFJt5ZyVxTQNwpp1	unnamed service		0.005	

3JVyPcMT7NFZjCRxXZrVSR3sWiw	unnamed s	0.052273	0.092273
3FoEM5qfwSbRkLcZQ16CshGjtP4	unnamed service	0.005	
35y3qXewc Bilaxy.com	exchange	0.818507	0.938507
3JVKAAbGtFTE9E9eLEpMKQZxmtes	unnamed s	0.01327	0.01327
3Nh187pggjvx2UBYWzAr3YZvP2y	unnamed service	0.005	
1PmXNZp75eTAerJNjU8DRSwS1p	unnamed service	0.055	
12T1ztSkedFUJXBfwd9cFn6iPrRFb	unnamed s	0.0091	0.0091
3PdvYtuss1Yellow Brick Market	darknet market	0.02	
1Hu6aPhxAFRwFxMEN19u67vNa	g unnamed s	0.019644	0.019644
12o8XbGRj LocalCoinSwap.com	p2p exchange	0.065	
31kTJiJNqP2c83pKnYRSR6fTGf28C	unnamed s	0.001943	0.001943
115HncxqknNDanbB2wPsiL7sHGr	unnamed s	58.32932	62.54432
3A4Ekdg9i DoveWallet.com	hosted wallet	0.03	
1Nf6LTXP85tSsyedQNqFXwyLFA2	unnamed s	0.085103	0.085103
1CDH228B48m1nW4BtWiu22XSYt	unnamed s	0.00561	0.00561
359oy2A8zU8xAGJgDMyuK7itKPM	unnamed service		0.025
18dT2ZHrRk64dBQK82VezgHc2bS	unnamed service	0.325	
3MLDYQzH5DuM3X8ps6PHag6ww	unnamed service		0.085
3PjbniKMSAjxb8Ef4HoomfMJKMC	unnamed s	0.000706	0.000706
15ctsulNS18SJXWLyaGVvaAnQ1cj7	unnamed service	0.015	
bc1qgl8ad002vlcajqu63me5kp6sv	unnamed service	0.045	
17SheUYn\ Paxos.com	exchange	0.215	0.065
3JFhfdb9yym9LhR2ecVCSP5qDsxn	unnamed service		0.035
19ednbi65\ MyMTIClub.com	scam	4.41563	4.59563
33UAekxLe3rptNXEWGPLj4m2Em	unnamed service	0.125	
17Erz7qymV6Ncimk1GFiZeutNrhb	unnamed s	0.004506	0.004506
139Bger9oSf6be2H7KwR1BdzqCA	unnamed s	0.002798	0.012798
3JXs1hsYZigDQvkbxnaQ5SHX8LLg	unnamed s	1.197583	1.512583
144dqPY5\ Fairlay.com	gambling	0.112366	0.247366
3AE61dbffihyzLYRHRxEAidA9xG6T5	unnamed s	0.000529	0.000529
3F6RL5X4iq8fhkc3WzPSKXQBD4q	unnamed s	0.008933	0.008933
17at4JpQEJNNvADu27cvPbJ2ZTa	unnamed service	0.025	
14t3HcTv5WS7zvjiovEcswnhpegJa	unnamed s	0.045223	0.065223
3M991pHr7kgY7t9xiApBFE177pw	unnamed s	0.002312	0.002312
1HDUJnK9I DuckDice.io	gambling	0.04378	0.04378
16FGRrU1a1TFuHsGt72CLNcjkJ5H	unnamed service	0.12	0.055
3Cq4n7uywRe5rWXCZ88CATfpBr	unnamed s	0.003702	0.003702
387yftfhBn Celsius.network	other	1299.666	1438.516
1HneGmpAg38UpkoSnfboZjzER7r	unnamed service	0.43	38.375
1vQ439Zib6fsXCrPFzX21w7ZEUXFl	unnamed s	0.001954	0.001954
(coinbase) Coin Generation	mining		0.18
1PchPNfqo SendWyre.com	exchange	1.997184	4.157184
3D3MYt9a; AscendEX.com	exchange	4.50689	5.34189
33QX2r96frhrmFBpNSD4gaGpUyc	unnamed s	0.352889	0.552889
3GgSvD1m MorphToken.com	high risk ex	0.0275	1.0075
bc1qtx8lew EggChange.net	high risk exchange	0.075	
3DkuqZpGeDHCmrL29qhRcneXJ4r	unnamed service	0.005	

1BUVqay2	NiceHash.com	mining pool	0.108541	0.223541	0.12
13FchtNzwz38gCNgFvNnhsHwy8L	unnamed service	0.027852	0.032852		
3DbFJdykqq9XhCHWNuiJmivXcSw	unnamed service	0.001901	0.001901		
3F2NBWMM8iqX41VSYnjb9CDT9l	unnamed service	0.019379	0.064379		
1BibMv4h	TexcoinFX.com	scam		0.13	
1KwmCS1J2b6dCTq8aikZFK4jQDpj	unnamed service	0.0087	0.0087		
1M9zLVE7v8zZo74bkknLJhxWEzbi	unnamed service	0.006551	0.006551		
3Bq4eVMrRA8vra26HLTfA7mw2E	unnamed service		0.005		
bc1qg4n8ku658q8n5vu4guw2lxxv	unnamed service	0.005876	0.005876		
15uJvFAkx	CoinGaming.io	gambling	0.119871	0.459871	0.01
3HS7mCzMcfcPopRjgZHB4F8x81r	unnamed service	0.001836	0.001836		
16kRU4rhSNyUqT8gqPGJpxPJWYr	unnamed service		0.055		
1GWnCP7rGkYeKiwqaaPNc7No2t	unnamed service		0.015		
3DnaXr32VQP3h8bnSH3RRRxE1U	unnamed service		0.59		
37Rv9LMcaSPCh6LqVpnkfoFKXmy	unnamed service		0.015		
3Hib5Bicjpp2HbyjHVePsSoXE82NF	unnamed service		0.005		
3QCRtaRDpHvV619QwyqF2w8bf1	unnamed service	0.002024	0.002024		
1HoCaMJX	Elon-Musk.life	scam	0.030351	0.030351	
12rCywPD4RPW3P83hegc6LBGC9	unnamed service	0.00025	0.00025		
3D66pHnmETQKTQ7uKVzbBBCCm	unnamed service	0.0004	0.0004		
12zr7gegAema5BeApdPCiDsFsZek	unnamed service	0.00725	0.00725		
12yY6PmG1E3wp6P5hrQmAPnH1	unnamed service	0.006388	0.006388		
15NLJvbaVv3zDhRd68CpbqMeJbT	unnamed service		0.005		
1DGYXxifqk7YGEmsibVrDpcwai6h	unnamed service		0.075		
3K2FXu11C4MWSq5E7PxhnEELqn	unnamed service	2.588007	2.808007		
1AKaRxCSLDVcbtiSztXYLLKYyNVL	unnamed service	0.0055	0.0055		
1B2fB1MtLryhyEg67VUcQGikCsJqj	unnamed service	0.003707	0.003707		
1Kh2za1VeF4ZkWUdAJnbjMKGurE	unnamed service	0.008455	0.008455		
132gfLpZf	BlockTrades.us	exchange	0.005786	0.005786	
1GzwigadvXc1cuV7rXpQM7axHuN	unnamed service	0.004059	0.004059		
1FPQi7Swv	UAS-Shop.ru	fraud shop	0.003745	0.003745	
3JMx21TsHeZtfKbxuxEGd3HvYUiN	unnamed service		0.005		
3GQ4nrGzrxMpFx4zTGxpAeMAZa	unnamed service	0.003928	1.828928		
1KHVJTbfcz6U8bc4chSsZJhYk7xXG	unnamed service		0.01		
32ZLK9iJk6	SouAlter.com.br	exchange		0.005	
3HMdy1PeAEvo8TduEjdN6U4YXm	unnamed service	0.00528	0.00528		
1birsVpaBbTWN9kbDLtQ7v4xZkQi	unnamed service	0.055201	0.440201		
1CCKVZHCVayvLMHHbnKgnVsKnQ	unnamed service	0.002414	0.002414		
32oAtiAtPw4cRyB5p7x1U4bnmRN	unnamed service		0.005		
37y8213N81WusoHjSN5nFVWMd	unnamed service		0.015		
14iKknFxa	SafeDice.com	gambling		0.005	
3QHMgf2LDCKPj8y72tW4MBVuZs	unnamed service		0.025		
1Geminir1	GeminiBTC.net	scam	0.402948	0.402948	
3BpFcyFimZC4GPWvwGQznhPhFr	unnamed service	0.009869	0.009869		
33XHz31VdnVuHP8ZGiRznMGzca	unnamed service		0.005		
3DoMvFAbow7oJ273Kr7bQNNvq7	unnamed service		0.01		
382HxfJxspN9vYrkfUo9jFCDxJir7m	unnamed service		0.01		

1NEy1n8Je Bitrue.com	Bitrue.com exchange	41.16319	42.91819	
1Lx99bYhr1qHEEgjwjZy3ec4kD5ul	unnamed service	0.031571	0.031571	
1F9htujdqhrFQ3ZE	EmzndHt24CN4z unnamed service	0.025174	0.025174	
3EtY7rGMi55LPkrMd8hLC2UXh42	unnamed service	0.001613	0.001613	
32j7FesbH Abcc.com	exchange	0.004858	0.014858	
3HWEyTjfR7t7iAS7BpNekzddqWrZ	unnamed service		0.05	
3AMejYJ7uoh2B	BgkveqEN7kzXSbkc unnamed service	0.00063	0.00063	
3QvbH4BnkPXoZ	RtXxaedSA7u4D6 unnamed service		0.055	
3NBwo2JEfFcUYCfzX	UoYvcZ1wf5Y unnamed service	15.18653	15.45653	
19bdd	sEiBnyXhzj4wVDE764maFNi unnamed service	0.001835	0.001835	
1E1mRpC8WiRu	wkkjZCj9G7GrhD unnamed service		0.1	
18zKea2Tuiiw4u	ND47MjGYwvrCB unnamed service	0.003089	0.003089	
1MLgaxVM	Bitpanda.com exchange	0.672349	1.432349	0.015
1B7Q7rm3J	Wf5cs4srrplfyRcHsTQ unnamed service	0.002636	0.002636	
3LK9um6pD9	Nd5YjwQiwfQhFPRh unnamed service		0.74	
33Hmc	sseA3kMHoBxG7eAoZFSx9 unnamed service	0.002981	0.002981	
3Nb6bjjoJ	Lv4GvF3TzCJZ9zEDVf7D unnamed service		0.005	
12zvEDMqJr6iYg	LCFPKGdyZMzVrz unnamed service		0.005	
3HJ6Fw	jyyI BullBitcoin.com exchange		0.065	0.01
13Vp8xBW	Freewallet.org hosted wallet	0.839738	1.574738	0.06
1JdJ4vcNrb3y6u	VRPxjPRprP2FP9a unnamed service	0.010439	0.010439	
1D7ns7Q3l	HBTC.com exchange	3.969631	4.934631	
1Nuw3TAJ	\ smtp illicit actor-org		0.01	
1GTu7LWU	ProBit.com exchange	7.290407	7.555407	
1Juirjo1K59	TpxvZYnd43yrfqT21C unnamed service	0.023971	0.023971	
1DKC5Ynm	OnlineFXPro.com scam		0.005	
3ASwH	RkqYX4VZmrvo1Qf1HfcKC9 unnamed service		0.005	
3LzUEghjD	zmkHk2bV4etmJjXYeyRS unnamed service	0.023363	0.108363	
3PhYpU	Sb1qUZuNF5muoGM4KJ6l unnamed service	0.0216	0.0216	
1HQbB	BBiareH8SKyirkbQ68N3eJK unnamed service	0.020364	0.020364	
1MFbhKJAzb7jh	WQb8tcAAhonDY unnamed service	0.08547	0.08547	
12am2Sk12Y9k	MWbzCZwixgpLmF unnamed service		0.005	
3Gzedv8nG	XVcUzk3aZjMY84C4yD unnamed service		0.1	
3Nr6E66U	VAHBuJJBYMX9PX5VJh unnamed service		0.01	
3M4LBN5K	CoinToCard.org high risk exchange		0.01	0.01
1AoEQ9kLjFqN	nt15nwDfXLoW3oC unnamed service	0.018388	0.018388	
1L4Y5W4ivV	6TN65FdGjY79tPWcn unnamed service	0.00347	0.00347	
17JkTqj	ozhjGcYGkK6gioyv7DU2sw unnamed service	0.00118	0.00118	
189jxo	xMS CryptoCoin-World.com scam		0.01	
13CWDDMKDrSh	RPXeVx8x5isS4Cl unnamed service		0.01	
bc1qgywgr	SNLElon.com scam	0.001627	0.001627	
1GUZH5A1D	LgbAG6anQB7vA6mj unnamed service	0.000869	0.000869	
bc1qx4mffl3gl4	vsVtzktkn06vhphz unnamed service		0.005	
1913owvL	E Stacks.co - Miners other		0.015	
13NKhvvY	a7iaKLcdCKaHUqz3wwp unnamed service		0.03	0.01
3CB1mHN4enkM	2fd2wbcuSRZJcU unnamed service			0.005
bc1qdhmnft5lk76l	lI5uxqjcqsvg6w5 unnamed service	0.023625	0.023625	

15mxWLTC Triple-A.io	merchant	s	0.005345	0.015345	
35GKWXRzWnQEr91WRm47KHF9	unnamed service			0.01	
32nZ7sAfVJW7rM3zUq1GSwBtrFT	unnamed service			0.01	
193QoMo9aiYaFuAjmsHFQpH1VT	unnamed	s	0.009705	0.009705	
14cWq5RwpvxCkofREhF5bXoyVfG	unnamed service			0.095	
1AKgYVZbcHBp7ozpg2dPyqstggQc	unnamed service			0.025	
3PUwkhTB. AdvCash.com	exchange			0.605	
14B5vTz4bvStXiFnZUYp6DTazvkJW	unnamed	s	0.002219	0.002219	
1NheV8eQfHuVHLd25ggoMy5dbL	unnamed service			0.06	
1CtxqMekGmrNgJ2ZYwxj1kC7Kn2	unnamed	s	0.000357	0.000357	
3CfPvSy7MebAw8LniJbAmG2sFD6	unnamed	s	0.000833	0.000833	
1DKT5qg8yuDSdrRU8CGio1FMWt	unnamed	s	0.029455	0.029455	
1iqlWQf8DTm3mKYjKZ4jf1N1bsn	unnamed	s	0.002449	0.002449	
17PbpKDSoEcu1CCsKxtrzpdVARRF	unnamed service			0.55	
3EuB4VMPTWL12hNnV3wMs8BFJ	unnamed service			0.005	
1EQTtXWNnCbuc6BCvmcRQXYZu	unnamed service			0.02	
bc1q48ez32megwdy64c739dxe8	unnamed	s	0.016681	0.016681	
3NFB72usnVZYfyNTGemgSXDDaw	unnamed	s	0.002681	0.042681	
33WF5LPQ9Rs8f8eTAxUpcmWp9j	unnamed	s	0.039515	0.039515	
16Vetk8NYCtwLCM7ugcd7dbtzM2	unnamed	s	0.00761	0.00761	
346rYqUkpjBB1DcX1iTqds5zUQoC	unnamed	s	0.000176	0.000176	
1HyY4X4hDirYufEU62eKxsKhoj8y1	unnamed	s	0.002599	0.002599	
38ZuWkTPWF7ncTQy63p8aNVBKz	unnamed	s	0.122702	0.122702	
1Dmykqzttg6wmLnM8TAJDxST68j	unnamed	s	0.108741	0.198741	
1MCWgUoUmhegA1g5hAFA9K9uI	unnamed	s	0.030721	0.040721	
18utbB4NKpoEC2vZND53vXtPP1t	unnamed	s	0.002078	0.002078	
3NCXopYdGv6uQ3KKNrtyMcEMR4	unnamed	s	0.005613	0.005613	
bc1q77m0qqgxfh6dthjfjv06nwwc	unnamed service			0.045	
18LCuKuFC BitBay.net	exchange		0.261014	0.496014	0.01
1KbVTKajrcP1RaWwfqB4kkuNN4K	unnamed	s	0.001159	0.001159	
346N6RKAl BitBits.org	high risk exchange			0.01	
1MSdLZnkMBW83FLcqj18tDVmvu	unnamed	s	0.00335	0.00335	
3BCrc9Snpyy62VwjUjhK3efoZwT7	unnamed service			0.005	
bc1qles82dxrlvrhrw9u6znxn2qrwy	unnamed service			0.005	
3P8LUNMs5we5SCcL5TxiYGW3Vd	unnamed	s	0.66968	0.68968	
14NSLcvM; Waves.exchange	exchange		1.763108	1.983108	
1M2ygw9utZ69BTDM8XR3aLbqi2l	unnamed	s	0.008899	0.028899	
322QudMe1w29qiXoU2Wu6XE56	unnamed	s	0.001893	0.001893	
1BdzCCsAF9zM3BnsDLwm2L7EMt	unnamed service			0.18	
1NrJ7NzDFPmmEvk2ZbXxpUTMck	unnamed	s	0.00775	0.00775	
1F1XS2Rwf Coinsource.net	atm			0.005	
1AwHFAM95ZE1JU1YS5kTh9Pu7b	unnamed	s	0.02455	0.02455	
19m2oUqXQjNBypSxn5Rg41kb1pf	unnamed service			0.015	
3QiqwzxFbfHw9DJ4Vkk9u2LK4tNv	unnamed service			0.005	
1Ab2vJFiQmHU5yYSvwBTKvQKWj	unnamed	s	0.000711	0.000711	
34PaMUYZFSxcf3XPmz8UUYScBJV	unnamed	s	0.003019	0.003019	
33UWzKr19sCzHZnMbgSWmf8YCl	unnamed service			0.005	

1BdKSMTb	World Market	darknet m ₂	0.395756	0.575756
38K9S5Yn5QohCX5jCasbZPAvc ₁ Wf	unnamed s	0.026139	0.041139	
38V9vCshie3EixYaFaoXN7S35C3L	unnamed service		0.005	
18H43RTXDx5BQLNqc3VrV4T15C	unnamed service		0.015	
13UfRUKms6n39dnM6DDmXwPb ₁	unnamed service		0.025	
397fjJJqW3	WalletofSatoshi.com	hosted wal	0.184975	0.204975
3EUR96rVF	SIGEN.pro	high risk ex	0.015042	0.020042
3Ek3MprgE	Crypto-Mining.biz	scam		0.005
1LrgAHUysnUandv3hAeqAgx76JH ₁	unnamed service		0.555	
32TLB8rfrjN2Unez4RUZuNVDLz1G	unnamed s	0.019809	0.024809	
3FVfDfH18w6gZ2F45nF6SvNRFurz	unnamed s	1.934783	2.059783	
15K36ZfiPWy3ycFD3KXKEWBR6uc	unnamed s	0.683678	0.728678	
19tEci2HK4fe72v5s8dQ1Dq3LuZs\	unnamed service		0.19	
342Cc14eH	FalconX.io	exchange		0.04 0.255
3N3YMjDUDW72Cq1rjq1m4Eph3\	unnamed s	0.00128	0.00628	
31mRcuDTNXwdfjeyECvkQbYbQx\	unnamed s	0.001281	0.081281	
3K9kMMBXnDyotz1QkgBJDbguC1	unnamed s	0.001573	0.001573	
3Pn7piZMonWJmr7k19cW8ysZU1	unnamed s	0.007345	0.007345	
3JEfkrrcTffl	NovaBTM.com	atm	0.026688	0.041688
19XhybFeqQXcFkc6DZpR5zoXpwz.	unnamed service		0.005	
bc1q2jp7yg5eInx6x943pwsftxhm0	unnamed service		0.02	
17xBsjELKVKBcvuSKJvYSDNwEHvo	unnamed s	0.010738	0.010738	
3Mnm1Qg\	Reported as Mespinoz	ransomware		0.005
34geKw5J3J2VwdpRmWqMFnmk\	unnamed service		0.06	
1L51UvTCpGiJ168ztQ18JqVH7V3Z	unnamed service		0.05	
1LWh2ZR4	Bittylicious.com	exchange		0.005
3BuVq8mzsStjTUPYKrarKj2T1yKcn	unnamed s	0.0075	0.0075	
3KwKhHR3zxor7PSfiv6WvDawyKj\	unnamed s	0.00087	0.00087	
3QXTmXFIC	Icarus Market	darknet m ₂	0.078418	0.113418
3PzH6r5kf\	BITMAX.me	exchange		0.02
35mUX58xNWDNTnjGxCkUq7iGrL	unnamed service		0.11	
13KACerBFXmS6xZCkqgkM5vifWp	unnamed service		0.02	
3GFrQUh89srVqJzp1fVaLgE13QXh	unnamed s	0.014504	0.014504	
36UDq4TYLz82LYazpn6aoJ1Ygv32.	unnamed service		0.005	
1AJg49P8Z	AKRossiInvestmentsPt\	scam	1.806059	1.806059
1AyBwf11R8cvEyy1Sds7Yqdr1639	unnamed s	0.013	0.013	
1FtFM85A23xKtDngv8WpqG5i8KF	unnamed service		0.035	
1Pb8bV5vF	Coinify.com	merchant s	0.002491	0.027491
3Eo4JkhkBAV4RFaCe2TSskkUh9dC	unnamed s	0.021343	0.036343	
36fkECbKnWCsxDuPfz5t52NxkQ6\	unnamed s	0.00072	0.00072	
14UraxzVWnZ22ZTQofcqYxcFnzp8	unnamed service		0.23	
1HKen77oSutvdo67JShtPGfpR1M\	unnamed s	0.0057	0.0057	
1G5ASwHtW6RAbksMVm2nVBgKf	unnamed s	0.086857	0.086857	
33ydwQB8i5Z3fbBAzSAKZw3fZLvE	unnamed service		0.005	
1ENngQ41\	Bitcoin.de	exchange		0.025 0.005
3EhaXxqCGBikBBxJN3c54xZuJfRtc\	unnamed s	0.019687	0.019687	
39LVmyt1T3UH4M76zsTkHMHz5\	unnamed service		0.05	

1LKDx6siuł Cointree.com	exchange		0.005
3KSB5dENc Birake.com	exchange	0.034905	0.034905
1BrC4UoG/ Xcoins.io	exchange	0.005	0.01
39ZaWyG9gvtGMDUgaAKSEoMC	unnamed s	0.003657	0.003657
1GnQguKA ChipMixer.com	mixing		7.595
1Q4WgnM Investrix.io	scam	0.0173	0.0523
3LV4Ae8sW5xFRp3TgdDq5aUeN	unnamed service		0.005
3DVGGfKGUrkBtzEm2BgwLgWp2p	unnamed s	0.194188	0.194188
18zAZmF1sb8Ro7K8shin17RUnZn	unnamed s	0.05489	0.05489
3CM9pUhvFXG7KRjcCuXUcJbFqcN	unnamed service		0.005
38tiZqQv1V8RoMEdE8umiCJ7yEul	unnamed service		0.005
38ENmTr2, CoinCloud/	CoinCloud/ atm		1.15
3PyK7Haz1Q7ec4uW7LWnLrcVro€	unnamed service		0.005
1AYCfA4Sy TorqueBot.net	Cold St s scam	0.355706	0.360706
1AFNStV4R Tidex.com	exchange		0.04
3H3Qmkwl CoinDeal.com	exchange	1.682187	1.682187
1L8qDTuVkJPhqNg4yFpqrnFqYKzJ!	unnamed s	0.000405	0.000405
33MJK7MHRVz7A5VqZRj2t87DBDf	unnamed s	0.005852	0.005852
13zsn5AVYQTBQYKAFbfcV5cao1d!	unnamed service		0.01
3LB3b9aAbDyL4zkigEVvbu8AVJm	unnamed service		0.01
1GiABtEAjZsH7E1BjhjaWqUvTC81l	unnamed s	0.025492	0.025492
1CZJQN2ajCu9FY8RdTnoKrkgqZ	unnamed s	0.011292	0.011292
1C1sKb6bugGBXq9o4urCAnsAKg8	unnamed service		0.045
1HTNnLYvxdRxSC32W6z634umRc	unnamed s	0.008092	0.008092
3CkK4tKfB61h59TcXCW1ryebJ6Ux	unnamed s	0.005004	0.005004
36Ca1C1FRCKAr9HJbxN7eKW28	unnamed s	0.122716	0.192716
334tNWFR Rain.bh	exchange		0.01
1cY5jP5dq€ Vendetta.cc	fraud shop	0.00222	0.00222
3MuJW6GNmfDmJXq5R5mXRrpf	unnamed s	0.001942	0.001942
16Xuvss4tw716VuBxhSYUoHfQzol	unnamed s	0.033505	0.093505
3M5TQFV1XQ71TY1vbxoH1gKx7T	unnamed s	0.009458	0.009458
3DguCsDwJWwYMJwwjoLdyr3hc5	unnamed s	0.0004	0.0004
1Gk8S3Gs€ CoinSpot.com.au	exchange	0.018005	0.318005
1LnMMkHZLbL7pBckmBjBDMdASl	unnamed service		0.53
39d9s51RTN6Bxt4okfaRKpgDEzrV	unnamed service		0.01
3F1hWdd5nu3aakFY1Gaci5neBUB	unnamed s	0.00211	0.00211
3ATYdbHtuEvazUpKU7bj5d9pA9y€	unnamed s	0.002255	0.002255
1Niwg196g1bMKuAtvTTX8EemmSu	unnamed s	0.003418	0.003418
18mW6Yft8E5kXAQCCFc6EcM63S	unnamed s	0.038239	0.038239
17jkkwuqRttq7g57HcfaDcmXMfN	unnamed s	0.080726	0.080726
1KgrTYEw€ SealsWithClubs.eu	gambling	0.011709	0.011709
1MfFkLn1xepdcmN6k8rmkjM4nrk	unnamed s	0.017273	0.042273
33Pze5yeqb588dSkSRGV64qiVtDB	unnamed service		0.005
bc1qxy2kg€ Twitter Scam Hack: Ac	scam	0.001498	0.001498
3DNPJeDk6ZKxKQFC58QwiDYqeJo	unnamed s	1.286432	1.286432
3BwwUiGHNZFwrCg8mg73wxAdY	unnamed s	0.001528	0.001528
3PkzyZfzc4 NDAX.io	NDAX	exchange	0.055

16ATn9DDI	HTC Trading	exchange	7540.329	179.655	7551.189
bc1q93zmp4tzt8qf2rgufzpn0lhfp	unnamed s	0.000617	0.010617		
36cFrFfQwikQVF9GZodxkzf1B62d	unnamed service			0.01	
14PJWCByt	LocalBitcoins.com	p2p exchar	4.628155	21.51816	0.115
1EPjDNTELf5c767KKQzzNHexJsGM	unnamed service			0.1	
3QumxEWsxYEmh3e7t4AzKTDVkx	unnamed s	0.006	0.006		
1MQ1XhWmimirRNHhanLLtzcJSCP	unnamed service			0.25	
191uemxYDAuLgpRrdvvgzqN9AzkW	unnamed s	0.005897	0.005897		
1Bgbxwarrh2YBgsqmwkfKui3fhbP	unnamed service			0.035	
12jFPtsynhfz6aydHPy1ZXo1cRDJD	unnamed s	0.003782	0.003782		
3AP6HRDw	CanadianBitcoins.com	atm		0.005	
16eNCyhDs4VsNwqvndWYR59gW	unnamed s	0.000967	0.000967		
1HG1w84w	EXXA.net	scam		0.01	
1PUTaa4ARLzwSkDcND4XNzC41y	unnamed service			0.005	
34v4LN4c2	DHF.tk	scam	1.577946	1.757946	
14VwRHoXhgYaZgHCJ1s5L6GtHNp	unnamed s	0.006899	0.016899		
1KeTW57W59ZtoMzoQRPt3H6eR	unnamed s	0.001839	0.001839		
bc1q0nlqj9qmeclf9dm5kqj8j2g6pl	unnamed s	0.018207	0.018207		
1Woodmx	Ark-BTC.net	scam	0.450103	0.450103	
3FaBSDmCNPGbmBthdCgvLFqj4u	unnamed s	0.074476	0.074476		
16V5Jy5AAmrHc3Ci35jPx8EdJE4ef	unnamed service			0.03	
3KfTuRH9bD2VR7qvdkPB4mgvYx	unnamed s	0.002	0.002		
3MJQwKFe	Tradeogre.com	high risk ex	13.60329	16.72329	0.015
1AbjmH7hHyZ	RyUmbhDAZFGxNK	unnamed service		0.07	
3Adgpxypc1D4HAZkWRFLKLxhUc	unnamed service			0.1	
16uhiDxSQaYW1SczAuoATzPY87F	unnamed s	0.038446	0.038446		
1FRR1kQQrqMAaXwttKG1cUKF9e	unnamed service			0.02	
36LYUo3V	OSL.com	exchange		0.34	48.41
1Ly3RRZnvUELAFuomcRr7n7Rz3rr	unnamed service			0.06	
19cpTqckxFZ4ARkuzrmXd4LQR7jk	unnamed service			0.1	
3AtzBeoAr:	MiningCity.com	scam	0.00075	0.00075	
38ukfvZKpmvjhMc136j363Mh8dd	unnamed s	0.216689	0.216689		
1EgQ1z9YWCwok2fErMJCdAkE5tu	unnamed service			0.03	
1F6zSKDcFZssSouBVScKrZiSP8fCy	unnamed service			21.925	
1ETwFgCtd6cJTS176b8E37j1F3bz	unnamed service			0.065	
34zFM26jKkFKVYrQrYD5fWe6PN9	unnamed service				0.01
3EgvyQgo6	GiftOff.com	other	0.621885	0.871885	
19n1Kba8HEpGs4henUxVZutFg1F	unnamed s	0.00152	0.00152		
1GQBjhXVwhgkPXZ8H5TuCmrQ1	unnamed s	0.045563	0.045563		
1EN7Mg1ffiEavmby3qRjqxEtpoSz	unnamed s	0.001557	0.001557		
13B1Mxt6HwUtoqndBHeCFqpnNL	unnamed service			0.14	
1Ey2E9swJ	Vaultoro.com	exchange	0.003008	0.123008	
15p4iUfhnsszLNAbx4Hnayz5zZQZ	unnamed service			0.125	
1Jtigdhvkk9np5B8nGD4WTB3LYFc	unnamed s	0.00213	0.00213		
3Mqc5fSbhCWHKZNE3oJTUNFg53	unnamed s	0.011163	0.046163		
1Lbd88UP	Mega-Trader.net	scam	0.134457	0.134457	
1xvmeFyvZQmJ4XNPHET8jqvSFbb	unnamed s	0.015	0.025		

3NJ5CrpizK Bitero.io	scam	0.005	
1KU2AsJftomeprywtXq31kBSVzoP	unnamed service	0.03	
1D2PJJeNEzbsAufmWoKgWKmngJ	unnamed s	0.00811	0.00811
1GaQw4NtVYda1z1Q5VQZgHsisszI	unnamed service	0.005	
19W2SrV76HT1BeSSXd7gr7AQGe:	unnamed s	0.16669	0.17169
3PZZ4vMCI Delta.Exchange	exchange	0.421078	0.431078
1BwysMVmbstiJ1cDWX2Yn5WnTc	unnamed service	0.025	
1G9KGxW9p3BbmSchywTuqtrMfc	unnamed s	0.019753	0.019753
1waRgbL12 Trade401.com	scam	0.005	
3G3kTLj7S/ Bitlo.com	exchange	0.00126	0.00626
1HGRHz3qLKyXk4NAkXheNqGoUi\	unnamed s	0.028937	0.028937
3Gjox4LdB1 Net-cents.com	merchant services	0.055	1.215
384uXhkZN Fokawa.com	p2p exchange	0.005	
15ehV9b6Ji5yJfgNc1GJvJ6e28DFG	unnamed s	0.001317	0.001317
1Cb9FYYtfCx8StxgVXUSDbwvQKJjf	unnamed s	0.008519	0.008519
1A1nBCs5pdYZf7GqhWLaGajDHda	unnamed s	0.004633	0.004633
15QaPLWBcLys12cTgQw7JbngaUz	unnamed service	0.12	
1JmZa9rtKJVhBV1Dwzm7gXmjJBV	unnamed s	0.004671	0.004671
1PTvK3ukP FinancePrime.com	scam	0.025	
13mpQcVR Unknown - Ransomwa	high risk exchange	0.01	
18BZT2jGx' WasabiWallet.io	mixing	6.553861	17.74886
1NyXtB1pkrPC44Mt8oGB6AHq6y&	unnamed service	0.035	
33Eh4Z8m\ Infinity	darknet m\	0.045018	0.080018
1N6FsSMS93zYjpNTzGi1eGUtbL3e	unnamed service	0.05	
1B8LJbt4QTub1v1jng9iQE1U3Dha\	unnamed s	0.002476	0.002476
1A7tWftaG Coinberry.com	exchange	0.075	
388nbTUK7vdVF7v9VVuGYjH1GG\	unnamed s	0.043261	0.043261
1M54qp2LBjaTaCSYxVBzooRtTo9\	unnamed service	0.005	
175bZvRhAwtBcnC4fUqd7pubUyrl	unnamed service	0.005	
33DA29zrVVpSipLB8RF8Hn92X6m	unnamed s	0.0027	0.0027
3GBdoySe1 PowerCash21.com	merchant s	0.0061	0.0061
bc1qt6erd50dnj5ghlrh42drqvn8ku	unnamed s	0.04516	0.07516
1BxTutunPb5HlpvAyE4ctgYurDnW	unnamed s	0.008263	0.808263
17zcuMbob7Zyu4tP3k1C5UJaM2i\	unnamed s	0.002417	0.002417
1D5fH4binnSPCPPKNkbcGWLm6F\	unnamed s	0.002598	0.002598
1AnD77GWKNg4EZLWnjNVVpm2\	unnamed s	0.035786	0.035786
1GvxzYdJCzG6Kru4NryRW5VUXS5	unnamed service	0.01	
39NPNwNe9ZimUWtzVp2skJp9Xe	unnamed s	0.183471	0.183471
19xfiH6v9e Bitfinex.com	exchange	2.487108	5.132108
1H3DgHAsFwMTiJiMn1DzqLNsLyp	unnamed service	0.055	57.745
32CST4Hzc lbandirect.com	exchange	0.04	
1ANCfmoKtHUZs1GwPaDCPAgUt\	unnamed s	0.038025	0.038025
3CRZtw8oL4mL5kfRYfwwwQSZ5U\	unnamed service		0.045
1Fz2zdmRTrYdoNf76DLkyQ1cv2dk	unnamed s	0.00736	0.00736
33rXht7zQDQzaYzLi9ZqEFUhfGU2\	unnamed service		0.04
3B4ZCfz98ypar7PWa9v8fDqwt3py	unnamed s	0.012895	0.012895
35E8YJnDV WirexApp.com	exchange	0.001264	1.106264
			0.015

33Wxsiv6bTDWcsNi3yB4uHjrTpNt unnamed s	0.044834	0.049834
19uiKbp9C APEXMarkets.io exchange	0.014072	0.199072
1LjaoNDiahGfrZxpYuQRgb2TV4JaF unnamed service		0.075
3DG3XeDJFgEZxyven5KdgNAPPno unnamed service		0.08
1GqpTqFxF Uphold.com exchange	36.08507	42.61507
1Bxtr7HN6UhQNqxnU3mQzQag9i unnamed s	0.001863	0.001863
bc1qp0empjcy4pyn30q9lc2ur5edt unnamed s	0.00055	0.00055
3CUjUN3hNNfLizQT7C9djxLLFNgQ unnamed s	0.003758	0.003758
37DarKzWo8TL5UE7UMcoUvgBZ7 unnamed service		0.01
1CjReh8yfI EagleFX.com exchange	0.003153	0.008153
bc1qyxr8yE SamouraiWallet.com - mixing		0.685
3HznzQ72bWfTiWg37GrwxazoHiZ unnamed s	0.003047	0.008047
1Ln64ycK5FV6Ph4yrMyBdutk8NP unnamed service		0.13
3PbaA54H72UYhsHEneyn1jLgazPi unnamed s	0.043046	0.043046
1CXcLMebDsQbZsaN5LSMrZ4TMx unnamed s	0.08785	0.08785
39p4JKUmDw7pf2gK8Hnt4kg1P2! unnamed s	0.005153	0.005153
34M15vAbMyCyRF2MuCVKqAZqv unnamed s	0.000199	0.000199
16mUG9jMrwMyfSHCt14FCEd25V unnamed s	0.006259	0.006259
1kP7gx4Vm5DJCPz4rkJ2Vir4DSTD unnamed s	0.010997	0.010997
1F4VG2yikqFpVjPQTMaSEzwTqZp unnamed s	0.004801	0.004801
1AceRE3azZDyJT3zKX69daeL3ruS8 unnamed service		0.005
3EMqZexsFdbQKsGykrMp668xsryl unnamed s	0.148822	0.148822
bc1q8whqmqJlkffcd7gwuwvcjpfm sl unnamed service		0.01
3Lpmc84P\ FoxInvestmentTrade.o scam	0.813753	4.993753
134Xgqda8VLbxDboZtbNYFQFe87i unnamed s	0.001224	0.001224
1NHpy7ueCg3yqFtRav61gqrpLdNF unnamed s	0.016342	0.016342
3FVtf5a4q\ Atomars.com exchange	0.278629	0.278629
34PBVod3tS5JLcMhWNGwS7jzpe\ unnamed s	0.06679	0.06679
1392s3a2jaNXRWBCFoWgtUZJEHE unnamed s	0.002175	0.002175
36qqeFpm\ CoinDCX.com exchange	0.478833	2.498833
12GqPPchBNuvMeyYp5gEFV3W8\ unnamed service		0.045
1DRUcwWbuAwP2aaGS8mYEnP unnamed service		0.27
17kkTWavckrMFMMqjoRKoTNM8 unnamed service		0.01
37CteejrvBis9ENLomvToM3Ub9Tv unnamed service		0.015
365py4Wqb9GoZUGTerkowbhCQr unnamed s	0.011053	0.011053
187MF5dsI Velic.io exchange		0.705
bc1qck5z0vqtsy9ed9kzv3597fkxv7 unnamed s	0.008384	0.008384
1rfwwnuBxqneZY7jYVcuy5tT7B1Sl unnamed s	0.00364	0.00364
1HZqayHJRpvb3TR1LaHYDt6wHgn unnamed s	0.007391	0.007391
323sLS9KHzbsWJxptoYXH5LUrvnP unnamed s	0.299698	0.299698
39h9TihWa1oJvRNCcupc6fj6UTAi unnamed s	0.007888	0.102888
3QaQ33KSoPVYmZtfTNe6mXt5R3j unnamed service		2.21
1QFjXEiat4rqBjM7SM5Fjd5u1Grkt unnamed s	0.01461	0.14461
3Pqi4RLmbDvay7EduVYt5y6b4RM unnamed service		0.02
1GNaQh78sv5stUowie3Bjs4U1MZ unnamed s	0.001019	0.001019
3BJBp7oBBucC6HSJ13SUADGfvP1! unnamed s	0.017357	0.017357
1FcpBFzARPf3QNrNBMHDviFqjNq unnamed service		0.02

1JDapbiQDnzVxLpztxiF6YvMepJQj.unnamed service		0.015			
122ujMmwdhta7X3CKAFxmBmEj8.unnamed service		0.005			
bc1qwxtxqmr0flh64ey6kcqhn4asx.unnamed s	0.005177	0.005177			
1EYEx7DoVXbhs92oFJYXzuewjHaC.unnamed s	0.037048	0.037048			
36TndHDYtZEPoBKzkJ2hgaXj4X83I.unnamed s	0.009803	0.009803	0.065		
12yJEcG2g2bj5pmsLyvQPCHDKBt4.unnamed s	0.00826	0.00826			
1MusK1yP' Musk-Prize.com	scam	0.06665	0.06665		
36CWK78UybVM76SV1vhAaUA34.unnamed s	0.01658	0.01658			
1JvnV6PyTKgeNUhoK79KvvrCBrbS.unnamed s	0.0144	0.0144			
1BZvhaUx6 Bitaps.com	merchant s	0.04231	1.49731	0.005	
1135APUp! Binance.us	exchange	105.9653	125.7803	0.325	
1FK2pFvFmCrjgSZkpYChAM2t4xNc.unnamed s	0.001704	0.001704			
1PUJaeM6! BitroMarkets.com	scam	0.001656	0.001656		
bc1qam8yddkqph6n5hngrpy3m7E.unnamed s	0.019506	0.019506			
3QZvGETgUP2HzgMcskaJqX2z24a.unnamed s	0.00494	0.00494			
1AajfmCZu CoinifyTradingBolt.con	scam	0.005685	0.005685		
131v6kzpWrpZrxTs9WADaDGnDa.unnamed service		0.005			
3Pgcr21tVyfbKW2HoGpGvzt59dXe.unnamed s	0.002265	0.002265			
bc1q0xmpqzfk0gfk2xmedps2l24cr.unnamed s	0.007939	0.007939			
3PDysWYJcyurNV4e3H79H3gaC3k.unnamed service		0.005			
194DnA1FrjzVq6CWy72kjos2gkUc.unnamed s	0.100859	0.100859			
1128Ev6iM Binance.co	Binance exchange	358.5268	3.0043	1047.792	222.1593
1MQUG4bZ9LHHigSDiQy78eNcsRl.unnamed service		0.02			
bc1qk8wwsr0awjumazt68fjsx5f53.unnamed service		0.02			
1BHf5rD7N Stocks.Exchange	exchange	1.654632	1.799632	0.01	
1818YkSVMzjoKY1Dd6dZ5yXD1Hd.unnamed s	0.015227	0.015227			
3HgkEfDdA Bitcoiniacs.com	atm		0.02		
1DBCHdsZ6Lvxz6wCTBHZm3doFxI.unnamed s	0.018692	0.018692			
3CTMyWfT BTC.com Pool	mining pool			0.285	
bc1qgvtvtltnr0k3js4vlgjxp8nxzqI.unnamed s	0.003159	0.008159			
3QhVjnvZXVzZuMXgkyufexJVR8M.unnamed s	0.001424	0.001424			
1MLd4zDg! BTCMarkets.net	exchange		0.315		
1P7HT5acjnBALmrGaMLsGMne87.unnamed s	0.006033	0.006033			
bc1qr92rqty3w6tqnndxs5zqcq7spc.unnamed s	0.009112	0.009112			
1Ns6jFfKu6yH7bpxNxMtGSZWxv1.unnamed service		0.075			
174P3STmbmHHY4HSQboiiZuXmn.unnamed s	0.009737	0.009737			
33Hbf1svoXHieq7hBHy6ALh6PXbv.unnamed s	0.0151	0.0351			
1ArqmXkxNQhxKBWFQAwX5S9F8.unnamed s	0.000846	0.000846			
3QoxdKXv8xLadVEGczWiNsLmFGI.unnamed service		0.025			
1PmoH6QnAt7iWyPM5vWmQ6Dc.unnamed s	0.001589	0.001589			
347KzY8udcXUZodyTBmSuDRNzP\unamed service		0.005			
1BJfsj8LWVtuCkfhGi1kirDR8Tm9kI.unnamed s	0.003207	0.003207			
34QNkdpF ABSystem.pro	scam		0.02		
3DWVbjwotYFGHpVUsGuoUj9mW.unnamed s	0.010966	0.010966			
3DuXFu3BvqyVWAbBHb2uJUhN8I.unnamed s	0.002266	0.007266			
361SutatvucBNkTBZvmNPaxThLbI.unnamed s	2.363718	3.933718	0.08		
1Hz9j8va3: TradeFX21Mining.com	scam	0.009154	0.009154		

3Kn181DM2tKfDF2aBmW61GccV	unnamed s	0.021044	0.021044	
3J5A7ni4wnBTMGjs2iwdJM8a4J2	unnamed s	0.087312	0.092312	
3Er1VLxgfd5vUaaSHUVj2W9BPeXI	unnamed s	0.530355	0.530355	
1HhVMYrxI Bitstamp.n	Bitstamp exchange	6.78347	9.65347	21.885
387rtKeNCi1W2pu6uFWvJYZH2s1	unnamed s	0.141256	0.146256	
12xjTvg1aqK9Jc46N4cxTLiKnCWnI	unnamed service		0.085	
bc1qn3fqq	Reported as Cuba Ran ransomware		0.05	
38ZqHMmtvQpxZHF3cc5ZoxDZcgC	unnamed s	0.007926	0.007926	
36HyjWwP7Z5rHqP9pi52tbGfBPB	unnamed s	0.065115	0.065115	
39Nmsvj8eFjtpzHjzLKUMVBT8YBk	unnamed s	0.003272	0.028272	
1DxsEFmxcV7sCp2qc4FGTnqSWLP	unnamed s	0.004807	0.004807	
3JZiYC4ASHYsJZeAzqZ2A1Rd3HNrr	unnamed service		0.07	
19oEeFqtnPL57htTNSX1otYeSkjb	unnamed service		0.03	
1AdjhHJyTj	Twitter Scam: Fake Elo scam	1.432234	1.432234	
1QDEWLUNQ7uKWfy5sgzrKmvRb	unnamed service		0.2	
3QWRQ7jvq6J7zPEy2dkLloMd41v	unnamed service		0.01	
1EZ7vNjrQ	StandardAssetManage scam	0.003134	0.003134	
1CNZ3qPoR98rQwfZ3jGdoAqxQ1	unnamed s	0.40142	0.64642	
1HYDyGaU8ueyQo1fLbXTVowFan	unnamed service		0.01	
1G3K4y99VAb6vUc5A8QHVGqZz8	unnamed service		0.005	
379UmsuKWNJ1nwDJm9tgP7Bnc	unnamed s	0.003191	0.008191	
3AQfSWLZH9djEpiZ3kP9g8pB4zjsk	unnamed s	0.56656	0.65156	
14wxmAB	BladexTradeFinance.cc scam		0.005	
12ZDggFG	YABTCL.com gambling	0.001997	0.001997	
1tiV7WrZKeHCgsqvxWn5wNvaD4l	unnamed s	0.00276	0.00276	
18N1CJqm5eg2YggKw	HSC ML clu	0.498544	0.498544	
bc1q6dprunrwqugywe50j6l5amsp	unnamed service		0.005	
1JGZFQFyc	Big.ONE exchange	0.14326	0.24826	0.195
13LpEby4TBA2WJfjnd68jfukDgstq	unnamed s	0.011193	0.016193	
17vnh4GeZaRhBMk7UcoQMN3M!	unnamed s	0.001325	0.001325	
bc1qns9f7	FixedFloat. FixedFloat high risk exchange		0.02	0.015
18emExMg	Eligius.st mining poc	0.03052	0.03052	
bc1qph34n	SamouraiWallet.com - mixing		0.03	
12xZoVcb1	Silk Road Marketplace darknet market		0.005	
1Ap3qTVhbZu2J6ZzqcAUMURqxq	unnamed s	0.003045	0.003045	
1MZJTTGx1SNLBTC.com	scam	0.003566	0.003566	
17Ctn7KmJK8QkHggvyogt3LeDFQ	unnamed service		0.03	
33YmdKcAkK8qtqFBvs832wAsz9A	unnamed service		0.025	
361oysuEzFzDHiAnRB4zw4Pxv72Z	unnamed service		0.005	
1KMZWJZeQqhCPu2t8YXVzd39cM	unnamed service		0.035	
139dXCsABoMWXjab5hgEahVq75	unnamed s	0.002412	0.002412	
35xhTTM6n2H2wf6HgZ48cKLR42	unnamed s	0.297921	0.417921	
1GtvQHTvGRKRcwZUXB6T7BhhL7	unnamed s	0.006495	0.006495	
3FCQkEMUqdPqE5RHAVpnRfCLRC	unnamed s	0.044775	0.049775	
18sRUqwy	Coinfloor.co.uk exchange		0.065	
3JbXwLVM	ErisX.com exchange		0.07	0.05
1Dc698AivHSTMk27htJk5mF6vmu	unnamed service		0.04	

1BbtuMzUwpK49EfxEjBaxJwciZdei unnamed s	1.328642	1.448642
1BaJJQEb7JbTxEb6zwaVG14oUEfC unnamed service		0.005
1PBAGN4LwiusVnXLQLSpMNLCFju unnamed service		0.02
1KsB9nho8 SlushPool.com mining pool		6.67
bc1qef3uxzycqquckd04pdddf7d7h unnamed service		0.035
1D1LHUAX Coinmate.io exchange	0.235181	0.475181
1HRnPikH1QoqhCXZyDw6yQndh5 unnamed s	0.001819	0.001819
17NNSnfj95nXsN1k4B83Mj35QLFv unnamed s	0.006439	0.006439
1EDDjanhsbirq2epnTArxNasXGLsi unnamed s	0.015569	0.015569
192E8sjVfxCBJgG26HL6q8wzpSYZf unnamed service		0.005
13JQDe2ciobrvhkgVx8REZbX8bbD unnamed service		0.27
1ArQegpfi3 Crex24.com exchange	0.734684	0.774684
18uXkATZRoSDNfHWfy7TgeuK1sji unnamed s	0.052475	7.047475
3LC8dDKyE MARA Pool mining pool		0.01
12Ys86VrxNFKBwDHeKj7qkyMvh6 unnamed s	0.014283	0.014283
1LoHRWE5 Crypterium.com hosted wal	0.874771	1.014771
1GUL3ZrwLrQ5o6uj2FYrK9RXjUtXI unnamed s	0.022273	0.022273
1DJEYjUwekbKoTBk2WQxsMowsR unnamed s	0.018347	0.058347
bc1qj8u84pg2z8hjep7sw853zmxk1 unnamed s	0.003497	0.003497
1ESc6PXEAA1CpndZFSTzpwXvsvKF unnamed service		0.015
1Lsv4HAgH7SkQ6CvQB9QmR5cw unnamed s	0.273222	0.288222
33j5NFCibc BetFury.io gambling	0.901055	1.466055
1zLt7vs5QJvApymG2CbHUo1rNCV unnamed s	0.006936	0.006936
1FctNT7B8ykugfj7XemV2SbuiA5Xz unnamed s	0.03734	0.03734
34YKBQwqHfvwaWiiVCUPiZVFBcjz unnamed s	0.001112	0.001112
3FGn3EMF Vclub fraud shop	0.00172	0.01672
3GEC2Esthcm9VgnPrPdfanphpiCP unnamed s	0.02014	0.02014
3K8CTWUTUCwtt4s6y7avdUxsJ1X unnamed service		0.045
17si2uq7bFNHvbxertAUmyuRfgeK unnamed s	0.000842	0.000842
19ugUjBdC SkyCryptoTrading.com scam	0.004825	0.004825
1AWvwhZy Spend.com hosted wal	0.124381	0.189381
1DPzSpMXd85Cd72r2jF4P2H4yEK1 unnamed s	0.006458	0.006458
bc1q9ny3x386v7074qpn4fmze2r3 unnamed s	0.03989	0.03989
3BYUBv9EuZMnCAiH2XE4TChsUd1 unnamed s	0.20789	0.22289
3FkbdMf1z Konvert.im high risk exchange		0.01
3BvxiX5ck6 CoinSmart.com exchange		0.075
14huBQm6BfcqMrrYAoGAxWYXBc unnamed s	0.01196	0.01196
16vbzq7vAZaHKCxuSPdtviN3tDP1! unnamed s	0.000966	0.000966
bc1qwk930wrj8a05hgqkxhww7an unnamed s	1.354	1.384
1HknzCBfi1 NetEx24.n€ Netex24.cc high risk exchange		0.305
1DNHtBBUXqV4wKTi3uh1cigmxAv unnamed s	0.00798	0.00798
3BgWGLvDNun6gVNjvjy5fu8ycopdl unnamed s	0.008005	0.008005
1PN6souJmyHFGn47FPuP8TGYiSJt unnamed s	0.0025	0.0025
37DwDeLCZWEG9hGVmn87wo2V unnamed s	0.002129	0.002129
3Px193ZPbnPFm9iJmEF8G7ges3V! unnamed service		0.02
398SQPPT9ANLV8SSh7ggvscHjHd1 unnamed service		0.01
33YR4X8yC B2BX.com exchange	1.213442	1.793442

1Fc1yT7Eu6M3AWj2XogEVDVXZr\ unnamed s	0.000885	0.000885
1DeBhNp73ExcFmZG1EoiuJjr4Jry6 unnamed service		0.06
3KRToc5Bv YouHodler.com other	2.195231	2.535231
1MXBqiZLDV91a4WMLdMv3qqgj1 unnamed service		0.01
36k7bhErv: ExMarkets.com exchange	6.128501	6.138501
19tppHPewC4SUEoPLDJtLCyEUS\ unnamed s	0.08656	0.08656
3BZreSq2rl CardBazaar.com other	0.035312	0.035312
1BBSxjQNo8nHAoumgNFPDTQcU\ unnamed s	0.002647	0.002647
1CyFs3t7Y2TVyE2GYaCskYZkeJkLX unnamed service		0.18
32tGcgBWEAfmWQiMhkWgGMXE unnamed s	0.014454	0.014454
3KdxSrw9VCqZiaZxok4GkzWkaXc5 unnamed s	0.004026	0.004026
3FKt7vqhnBXNuLXkwPFCfp6kho2\ unnamed service		0.065
bc1q7dmjqztn342e7qyl4tlfyqc8mj unnamed service		2.405
36TiSCgUjX4MVvTC2MoncV3Xa3g unnamed service		0.03
1FsSjYWDFc1Y6ncUN1JDNFSuJWs unnamed s	0.01009	0.01009
34yeN7K2W6Ghv9SsP2VEvWsZCh unnamed service		0.07
1N3EsHp8GSApcf7JodhfWBk4abn\ unnamed s	0.001776	0.001776
3K49BvzCgV4WgsuLtPanH79saJZn unnamed s	0.001701	0.001701
3Mg6gYsXI NiceChange.net high risk exchange		0.03
1AWmgKvujeBDvdbECuVDzwxJjiN unnamed s	3.17943	3.47943
1Mzgh1Dt3AEvUtAjHu8CiwDJUW\ unnamed service		0.015
15U8DHhcZ8b3NrMt36gtufs2K4Q unnamed service		0.005
1FhJYVL7meU3ijdfcXLMVAc2HGr\ unnamed s	0.108812	0.108812
13JY5mGhcBCAXbfjpHk9qpA2SbXI unnamed s	0.002159	0.002159
1KvXGMCa DiamondSB.com gambling	0.311412	0.341412
1HhZNpq85vQgTjCgRqjdJXpKPkw\ unnamed service		0.105
1P2g3cgZs4EtsKQqTW4mf7ErJs7sl unnamed service		0.155
32GZXLRrjP1mMB8wLmVjd38CPt\ unnamed service		0.005
1Q1vfZekFD9z7R6gFYWSKGB8mV unnamed s	0.005302	0.005302
3PEUSaFc7Rr71qhpyVPHQk562Pv. unnamed service		0.03
bc1qfujyqvj72w7u3ettguzngnut9t\ unnamed s	0.011119	0.011119
1HCqQYdajGxZkC9cPWJvZaBDqzo unnamed service		0.4
14WssHT4kEqECFJVQ62SLbsg1N8 unnamed service		0.06
1qojApGjJyszPkhHKQE6ZeMZYLL unnamed service		0.005
3GX6jt6rWRuPMZVeD4frSKKYsKG unnamed s	0.001007	0.001007
3MjMMspzBRaCqTmjWChR8u91Z unnamed s	0.004175	0.079175
34mPEQE17R5DNdsMzBJxmKd28/ unnamed s	0.016816	0.016816
33MQJRpHpmMjHzwjsj81iXX3ww unnamed service		0.015
127L8RW3uXTUXrq1uiQMrTtKLml unnamed s	0.003233	0.003233
3J7dP143s6ESEv4E1qdRtkqJcoUD\ unnamed s	0.017046	0.017046
37XByDio4u2n6y2FXaKHFhHfXZTg unnamed s	0.000607	0.000607
152yDcY5UaMnpR2GsspKxLsMtB\ unnamed s	0.011312	0.011312
3D2yXUT68XWypGGFqrBcRB2KJ2l unnamed s	0.005967	0.015967
1CKirn2ecNPDMpBQkuhGGZhafbs unnamed s	0.005168	0.005168
3GPxhsV4tmDZWm2cToMH5FNf1 unnamed service		0.005
bc1qczrv0l SamouraiWallet.com - mixing		1.115
3Gh3429v Anchorage.com exchange	30.2427	30.3727
		0.66

1KH2sNCzY Payeer.com	high risk ex	0.329465	0.864465
16wYXUTy1rdnMVrZLDSo1H7LSN	unnamed service		0.005
1961QXNGq1uYpBMdAf6WWiCpY	unnamed service		0.025
3HfrTrDaeSib3Anb37wwohP1VJXx	unnamed service		0.01
3J2RBCYAr2LqveLhpaaFAEMULBn!	unnamed service		0.135
3DjS6u6kJAnFkWqnkURXVyAyNU!	unnamed service		0.005
1GQNWLAvXMHwFhatYc4jndrGTc	unnamed service		0.34
3PEqVSoa1sLLUnYL8pN7FeM1M9.	unnamed service		0.015
1HGYZm3Kf.Bingbon.pro	exchange		4.69
398Jd1Gro8HohxCDx9cSxpPs6LX9	unnamed service		0.005
13JGjAhwvXLGBjM5QMa7yCozEa!	unnamed s	0.003055	0.003055
1Br7hE5jLFce6TpYDQapfUuk649gi	unnamed service		0.015
17RrdGXGy1zjPFh2V9xdE9kCTG52	unnamed service		0.015
31hVzYC222xdPNLvgW5fPSj4G9Tl	unnamed s	2.651601	6.261601
1QHDzxFyU1uKJGzsd5xYEaF7RPD!	unnamed s	0.001068	0.001068
3BvcKp8nH6yd1GJCYVEzxtYoszTX!	unnamed s	0.001603	0.001603
3F73JN99RU7f62oN4zG4d1CCtq5	unnamed service		0.35
147QzSkc4bCiZwGQsFvsXvq8ZnSn	unnamed s	0.03418	0.03418
1DCWkeZvxCcRDsT3uZk8qKoMbX	unnamed service		0.005
18TXrPQcr1StttfYTERjucq51uWfn	unnamed s	0.088855	0.088855
1BkK5gaB1ENbdvRNvA6eXA6pMs	unnamed s	0.001713	0.001713
1Bdj5n4C5_Block-Bank.io	scam		0.005
1AEfunFgx6CBXtnaMj93K5c9ZaLcf	unnamed service		0.01
1MxAk7NF4BrQwERTAVd3onSGR!	unnamed service		1.815
32dgjvc5DjU4mWDKhZCEUYbBEtC	unnamed service		13.75
1JakRHK8u NairaEx.com	exchange	1.160423	1.980423
bc1qtfnysl BitLocity.io	scam	0.023862	0.063862
1H2qqP4L3_LBank.info	exchange	0.170616	0.275616
1EmhqHhP6GAqhisZ4yTvgUbGvvY	unnamed service		0.185
1G5YyuFVUdnRxMZzbMgDjMgqjb	unnamed service		0.005
3M7SeomCZRMCTF4knnwcubpyP	unnamed service		0.535
3D1zNxiVb CoinList.co	exchange	2.176043	8.331043
3Ecwy78zvpEzWFZFnfDkFdU3eQy	unnamed service		0.01
37R1UYNr8dbE8QHKRgujiUmLWT	unnamed s	0.007473	0.007473
1BAiBytCeDpHq5RdHw3JgNxpsaN	unnamed service		0.015
3ErHhbVhTcCSif8X9rzsvYS2C6qirrf	unnamed s	0.002	0.002
13xHAVXnv9ZpTBWSYZNN8unyju	unnamed service		0.04
36dnPjsGc3zZ8wqpEbyuDxCdZNj2	unnamed service		0.01
3PsPtfp8zh CoinBox.org	hosted wal	2.214252	3.394252
1Ao7UoorBx5PDKHSUpogqbGA7a	unnamed s	0.002687	0.002687
bc1qcts655dw7vmjnypmx2qvtcd8	unnamed s	0.00026	0.00026
19uH755AqdzbtaQ1hmNtFzffQrW	unnamed s	0.001556	0.001556
36P1HAAhUXEWnoEcy76mcAPN7	unnamed service		0.095
1DrK44np3 Bitfury.com	mining pool		0.005
1HvDfUCw7WPNkdmh6yb75zvJz!	unnamed s	0.019684	0.019684
1EDkou8ctPbiWqqGr9ukWRnVxxp	unnamed service		0.115
34TFzoQ4AyWKQA7GD5J6MPLJZV	unnamed s	0.006752	0.006752

324VHEaDI ArgenBTC.com	exchange	0.015	
33P4Defim FTX.com	exchange	112.3835	91.27
3M72mGc Altilly.com	exchange	0.450616	0.465616
32UXXFZcSHxUgb1n99eVCGpE6W unnamed s	0.005713	0.005713	
194cQW4YK4rG1sXrozscT5hXFNkI unnamed service		0.005	
1MCmJ2SRQ82xKG0R€ Unknown	Unnamed service	0.03	
32CFV21maHm8Yx1noKMjXWQEC unnamed service		0.035	
1NeVopN1eJvLVqSziu8VX3fAEh3c unnamed s	0.006144	0.006144	
3NM17if4a9jPhnfYAzEio1Fzbtjfj5 unnamed s	0.016866	0.016866	0.075
1ATx1JzfdmDLgrNefGCjiDYbQZtoZ unnamed service		0.015	
1G1mtZTxF17UYUGR5XwhccEatqs unnamed s	0.010408	0.010408	
1BLDvrP778oVNCHpjV6EkFgzVZo\$ unnamed s	0.007303	0.007303	
14nnqC4xexU4vLpV1VQpAJ4BwFL unnamed s	0.00542	0.00542	
37o7WvD9TRBuh96nX8XRbr3kzDI unnamed service		0.015	
bc1q3yqae802luep7av0pn88h87zI unnamed s	0.017821	0.017821	
1252nvxuXBJGmTrXdQdDUjktf6V\ unnamed service		0.005	
18WrqSYCJJ3iQmrcnJzrQi7yknuV unnamed s	0.006608	0.041608	
3NC26Rqg Namecheap.com	infrastructure as a service	0.075	
1Ew8izi8JPn11C9nRcNEN8Efh4bx\ unnamed s	0.0585	0.0585	
1GXrcR1yJ8ciSeTrr4GL91DhoC34R unnamed s	0.005	0.005	
1JHPYo9D5AuxXLyF9D1rGDs1YW\ unnamed s	0.000735	0.000735	
1HAeRBqx Bitzlato.com	high risk ex	4.299106	7.999106
1Aca757ovcdYuZQnh3X1iNFknrry! unnamed service		0.005	
1HSAMInG4gXagaxJPeDnZtsR6PiV unnamed s	0.006137	0.006137	
17pQodquEr792V3hEJWqeQDi2KE unnamed s	0.035925	0.115925	
1EtZorzi1qrVLgMGr4BkNhXsX3pF\ unnamed s	0.032093	0.032093	
19gpZcU3TySt8Pka6qfg6LzkAF1G\ unnamed service		0.375	
1779p5Dfq9iFq95VTECz2QoCrHdC unnamed s	0.000523	0.000523	
36jTV1CcAEg23vcqMCGkYUF1fw\ unnamed s	0.0323	0.0323	
37f2dNNCc Buda.com	exchange	0.055	
1XLHmUiHryW6iQab1R1PFQKtDT\ unnamed service		0.04	
124R1axxzsHQVu2fwtaQvPNQb7S unnamed service		0.2	
3BYj9uERwRLbnRqSwHr8THtfL5Ek unnamed s	0.061484	0.081484	
1732hug94QnUyzNmbuA9tubDPP unnamed s	1.659729	1.659729	
3KySewdHrmLBp81REimeLG4rBd\ unnamed s	0.002329	0.002329	
1FT1LBykTl Pintu.co.id	exchange	0.001064	0.001064
3EmsBxPS1VHGucSx5nyE5ua6uGF unnamed s	0.065196	0.065196	
38YweVoYD7og83qLtSTHkpFKtBal unnamed s	0.007331	0.057331	
19Jp1J2NjgWvr5XdgNKvgdQhoiVz unnamed s	0.002825	0.002825	
3HqGEA4VPZ9bMrsUR2dYbV6pkN unnamed service		0.155	
37AYt5D8SJVN7RZujgHSFPR7vwnr unnamed service		0.02	
14ot1U5su TeslaGate.top	scam	0.000423	0.000423
15zN6YhX9vftb6VkJbWhLMvhE6Q unnamed service		0.005	
32r1vcp6UWbKHngQqRrjcBpmpA\ unnamed service		0.005	
1Gh4hmhXGd48x83CQcowP1FG7\ unnamed s	0.011898	0.011898	
1Ea93qGeQYzbxAfUiDEZUJTF37\ unnamed service		0.435	
3H9cpuKJvW1i1UN8XiNcHnQNbG unnamed service		0.03	

35yLKJrDjr	Omega-Digital.io	scam	0.0695	0.0945
38jbhj3nzGU8GvcqHdymeoBcJWj	unnamed service		0.005	
3MkuhX47kcz2BY4V6tJKbrkaJq6E\	unnamed s	0.038996	0.038996	
35zbxntQrYf6dH3Z6yAEnXHBuj67	unnamed service		0.01	
35hmRq8ZsmwHgiDEFtYBow15vf\	unnamed s	0.007034	0.007034	
bc1q7cyrfn	Crypto.com	exchange	278.2725	301.8775
1JbdceMnLH67UhSTj1EGfoQXVwJ	unnamed s	0.027552	0.027552	
1FqxMo5W3ez1WwGmjXx7yemtC	unnamed s	0.077337	0.082337	
1EvPaNR81CryptoFXETrade.com	scam	0.01179	0.01179	
3J6GAV1QZAkpLfk5gsBGSDigykDb	unnamed s	0.000194	0.000194	
38a4eEn85kBoSPoJafdf6ny31ZHJj2	unnamed s	0.004951	0.004951	
1ABUH1XA	ProtonMail.com	infrastructure as a service		0.005
16m7oFtZ3Sbtwdw41cdSg4aEWRI	unnamed s	0.057232	0.057232	
3CwT5tmrWC1PsNBm5kuTLiMf9p	unnamed s	0.040782	0.040782	
1QA2qs1vE	AmberGroup.io	exchange	1.889779	2.354779
1AzV4EoSwV5bA5vbyGne7U75QE	unnamed service		0.235	
1CssRS8mDys9fyUbJCJ5hAJtdbsBX	unnamed s	0.003634	0.003634	
1CFXtggwL	BTCArbitrage.live	scam	0.010584	0.010584
3Bihw1wErhBPLqyB7xq6e1TeTL24	unnamed service		0.03	
1GLyqEkgowYvzK9PHDY9wZze7q\	unnamed service		0.01	
1FpSihBgv4c8dsywEPVbTqu8HkPx	unnamed s	0.015214	0.030214	
3KLFXsH3P4CiGMmqdSUb2ycAM\	unnamed s	0.000564	0.000564	
1KRXjmMt\	leap	illicit actor-org		0.02
112zx9L2xyaD97Afx1cRPR7D8R3H	unnamed s	0.001614	0.001614	
bc1qkjf9rhg65avfs2mszkuyh6qzg7	unnamed s	0.048739	0.048739	
3JyHWH3pdLhFgdQ98og5dcwJXM	unnamed service		0.195	
12EDpP8PaS4HJyJ1aoxUW1sdEzW	unnamed s	1.146719	1.146719	
37b743oGxWcQCmYbpBZcF7wXCl	unnamed service		0.025	
37oWSr97\	F-Change.biz	high risk exchange		0.245
1LJ8q18Rj\	Gate.io	exchange	30.08482	41.84982
3CvHgk3M	BISONApp.com	exchange		0.01
3EC2JP2turqnAkENk4Uv3Dv9Xj7ja	unnamed service		0.04	
1GgiMc1iiZsPQstn96iRzNMpB19s\	unnamed service		0.01	
12qxb4cvqSXrUmazR2i2FyNRNQV\	unnamed service		0.42	
1PRGCvU78m5WAzdnu3maJ6UGx	unnamed s	0.001383	0.001383	
3ESZnUuAkVdHJHVQKs2PfXQxudL	unnamed service		0.295	
373wCLpZC1quHkeMhAfzSaGzZV\	unnamed service		0.03	
1KAdif8MN	StanceCapitalMarket.c	scam	0.010738	0.010738
1No48VQug37ZivnJhG4Q7DkAVX\	unnamed s	0.000127	0.000127	
3BtMxWZ\	Safe.Trade	exchange	0.019739	0.059739
1NPumfz4ZyHQ3bXdz9v8pZYee6x	unnamed s	0.017855	0.017855	
14ikK7R3x\	Crypto2Cash.com	exchange		0.01
13a7TdyybQmWKzLGBMqVUu5G\	unnamed service		0.005	
bc1qggdj3ewpjpp3898pmwjnpvcv	unnamed s	0.00523	0.00523	
1EVt9uZaBREx3BdKA4amRVRAv7\	unnamed service		0.005	
37o1PYeJyVSvPAbBhvn2sbv7NZn\	unnamed s	0.000589	0.000589	
3Lu8AWjc1amArQnfVe7cRzhNF7y	unnamed s	0.045	0.045	

33Lg5AqMF9vJ5uwNYJZp8Bt2Fi unnamed s	0.003074	0.003074
13JUuiWSL MiningRigRentals.com merchant s	0.024663	0.059663
13PUWtb5TkjTeS2TKxQeSGYV35Z unnamed s	0.00151	0.00151
13DpzY1zVNYjvCAjF12KfaJny7bZ7 unnamed service		0.005
bc1qsjptutj Duelbits.com gambling	0.542813	0.597813
14Y7yQAAjwzVseqqPaRumcg2jW\ unnamed s	0.010917	0.015917
1Ngq9aoiEWKjXVkMzGHipRE4Cm\ unnamed s	0.000479	0.000479
1He8DF3c1A8KsgnDEUrmtKx6BVi unnamed s	0.010456	0.010456
1sVMhm8tUY4HQT4cLsZdEKiqNo\ unnamed service		0.005
1sopd2iWAZagVjup9doU4LBz6Np! unnamed s	0.001152	0.001152
14w7WuN9yCU2Qavj9gdpXSuv8c\ unnamed s	0.000609	0.000609
19AgKXNrK5Fb27Ewkmyt6JufUTV\ unnamed s	0.002952	0.002952
38guQmrWVEqtD3ST9vK7Qqordw unnamed s	0.104819	0.264819
3DHfcldLNUwVuqXLoBm8e8ynLrW unnamed service		4.445
136dnfh49kK6xv64SJdxo2YGXJJN1 unnamed s	0.002552	0.002552
1KDZMmDkykZ5NgrTqtiu9x1Rjyh\ unnamed service		0.005
1LKWoXhy4pvBsG6r18Mhbsw2DL unnamed s	0.131811	0.221811
3AY8bSoqwq8c4uSmmdNAeAKak\ unnamed s	0.0047	0.0047
bc1qqcehurvrkzkymla3uq0drl025r unnamed service		0.035
1FPwWDqtxfmoxf3AJWGguoK6Ul unnamed service		0.01
32tXs6kFhtczuo7Qpfnkp5Hg6M8j\ unnamed s	0.564646	0.644646
1waeiTThAf8DpDJwX9dAzSN5ayG\ unnamed service		0.02
32ZWgfAkGdLub4JkKkWJFLMRCtx unnamed service		0.07
3Qf4e6MN Roobet.com gambling	0.747195	1.107195
bc1qjr8200frt2cluw8e99z2dynfj42 unnamed s	0.0195	0.0245
1ApznPorj\ Coinsquare.com exchange	0.025786	0.345786
3Lc79dEQoc57zQZQ8YKEubjnbmy unnamed s	0.001442	0.006442
1CUMq9xk3g31yK4WP8etz1sczGT unnamed s	0.002084	0.002084
1BKnkK7a4ez1PhMJSyzg778Jx1BJ\ unnamed s	0.001709	0.001709
3FEkrTckS8avVmDYXBVBTdpGFN unnamed service		0.07
3EnSyvakj4uvKj8nuv5vYBcPoSyKrv unnamed service		0.005
bc1q3paw7cz3f2hx0qczla4sc90h\ unnamed service		0.075
3No1XofHKC9VbEvrNDCXrTjwEDu unnamed s	0.00101	0.00101
394stoXSXm3RKdY4Y5xwm7A5rC\ unnamed s	0.000532	0.000532
33Epdr9GZ8ZguTSrpRecPnA3Qv4E unnamed s	1.175622	1.205622
3PfvP9eAHLPyTxJib7KXBhdzSGqg4 unnamed s	0.001057	0.001057
1GYzwNWdqncfLPqTpUQwoSjbW\ unnamed service		0.03
3CSMjSbaVWNQVUgbq8vWypux\ unnamed service		0.015
1UoMpa5zah8Xqdg8kp3XSNwmCl unnamed s	0.112125	0.157125
1EiZ3sJz2gev3hRpmtxvMeuCxCn\ unnamed s	0.001001	0.001001
3Mmq3x5gWv1bQEn3rY31xVf2dV unnamed service		0.015
3DkERKBBdFpLSPEyxpesczmSTv4\ unnamed service		0.01
35EDMUeUJHUZmooenhVNi3sTS\ unnamed s	0.004666	0.004666
182xE6C2LYuF9pSXMrpkrEqeeJv3\ unnamed s	0.002082	0.002082
1LBzvwBNvby5sv5NCYPscbScCQ8\ unnamed service		0.025
1Emy12njhyzxogsniaNziaobUnVS4 unnamed s	0.004255	0.004255
37CYkpDTCzghKQAAH6iFP7aFKfvT unnamed service		0.005

1B8wa8tkPFt4QXxYrUhD5ufspfvxk unnamed service		0.445
1M11UTUL CoinGate.com exchange	0.040156	0.310156
1NKkdnhGahpfgiET8f4CCNsxMUrav unnamed s	0.013151	0.013151
31ivTzCDzLhTxYUGTZvrZxV6wa3ai unnamed service		0.045
1LB34q942 CoinEx.com exchange	11.85551	13.58551
3FG83TZL3 CoinSenda.com exchange		0.02
34AbWGMSP4GPT3Sw44JaR7yPg! unnamed s	0.068848	0.068848
1JAbJh4zpHCD7FpXEKuedwq61XF unnamed s	0.021244	0.021244
17DAhq459GoF7pzUzJgskFH6hPXi unnamed s	0.0025	0.0025
12Qw1pXboyQSa98xrWgq7hiK5Kc unnamed s	0.012505	0.017505
3Q1B7Lnq4kAgHAUCrr7M8WmZA unnamed s	0.002813	0.002813
1KHFZZHcaowhuZ2vvpsSs66JKx5yt unnamed s	0.186093	0.241093
339AcreBhtBqkXMiT4XhvZK7G8rr unnamed s	0.00762	0.00762
13h4yuqCf Rahakott.io mixing	0.085911	0.095911
3QNiP3fKijCRFy9AfdFv6vj71Yo8Dc unnamed service		0.005
1FGUkYicC OXBTC.com mining pool		0.015
111hvbgan BitForex.com exchange	25.80174	27.01174
1DXvHrtPjPy92tMYmEf86w5uKnk unnamed service		0.005
1VBqZ34jN AnalyticFXPro.org scam		0.01
bc1qwrvk03awg3gt5z2kewv97hv1 unnamed s	0.001738	0.001738
3Df6uD8rw CoinHako.c Coinhako exchange		0.055
36dsFFhyx1 DarkMarket darknet m	0.442535	1.042535
bc1qjmsl360kfsvazrl2x9qfqujugk9 unnamed service		0.025
3FuRaYzp1491KuM1D69zaXimXqj1 unnamed service		0.005
3Htqku13GaXrHjhg5DKuEeuIM2V unnamed s	0.007507	0.007507
1K8Y8LniU CoinApult.com exchange		0.13
18w7QogsjGG6mfEZMmB3gHnu3 unnamed s	0.001255	0.001255
16zTPDnjf9mNummSyKguSF5eG2j unnamed s	0.016588	0.016588
3D1tr3hpj3 ChangeHero.io exchange		6.925
1EPnQA1s7 ViaBTC.com mining pool		0.04
1AczoFtp9q1UzZpkfedLuTdkBfMG unnamed s	0.001435	0.001435
36gMwopsX6PsyZrJt2EwWMK9Bs unnamed s	0.000169	0.000169
1F7Aw1hZ9rt9AYWTYerskPxqGzA1 unnamed s	0.072885	0.117885
3E8ociqZa1 Bitcoin.org Donation other	0.000531	0.000531
36b9skt5Hfq6nRX5K9S3NVQk8AY unnamed s	0.002594	0.002594
12bDQ42F5rCzm5iGvZvSaixmCHL1 unnamed s	0.027024	0.032024
19AfYprQKyrftn3C6kreAh5S4jHZcr unnamed s	0.009474	0.009474
1K6bRhnkHGQV7naHG26xfCjfQ9 unnamed s	0.000675	0.000675
1JVkdRT6fpZjAtCDS8eHAsZzWiJNc unnamed s	0.010368	0.010368
bc1qw7qmr8h3pz6m3nmqchahx0 unnamed s	0.002729	0.002729
17eqcxoRsDajTEPzSSCqjktdhq3W1 unnamed s	0.094	0.094
3BmHSCCPVgPj5j8hhniQymo1Hd1 unnamed s	0.039124	0.039124
1JvBwX3XE Coinswitch Coinswitch exchange	0.250164	3.440164
37tDG8GXek5VrZYdNUM9xPTRM1 unnamed s	0.000662	0.000662
3DnNCSBpECV69J53XDSYbmXwcA unnamed s	0.18991	0.21491
19aAQUNgHhm2rhBbcTtFtMfLt6o unnamed service		0.285
1LFt8DFSRQyYS5QuE4sRkPR9Yiuw unnamed s	0.024472	0.024472

1Azx9xp1cybD1QvW59Rdyh5y3sK unnamed s	0.009147	0.009147	
1G8eNoD1 CryptoProfitTrade.com scam	0.007	0.007	
bc1q8mvj3rj9uk4fpp7c5f2wc65az unnamed s	0.072857	0.072857	
33Gt5JmtQ55G2ggFAedrWXqKn2f unnamed s	1.629982	3.714982	
3GDgbaYyc UPbit.com exchange	0.22426	2.31426	0.04
1PbG8BXgDm6ANRbrPm8k3JoqaN unnamed service		0.125	
bc1qwxxjekqs8v3e9gujsjrk0fkqu9c unnamed s	0.00266	0.00266	
3288sqB1E1hPmoJ3VWeCQbJMXz unnamed s	0.047244	0.052244	
1KX7kxM6 MyFXChoice.com exchange	1.674683	1.859683	
1NXjqCWN AirdropStart.net scam	0.002	0.002	
18F4wHZNS6db88WGgKsRqx3oU1 unnamed s	0.027883	0.027883	
1EyEP76sRAQRYtNt753tpxVrNNG1 unnamed service		0.015	
1N3Z6Xt7obNoQtqNhS1P3nWeRN unnamed s	0.016194	0.016194	
14NiMxcMpTHiVcenZRJpYu46zS8f unnamed s	0.009961	0.009961	
3QfCSfTaotgRh9qR5eAiyHMV6Uyl unnamed s	0.001433	0.001433	
3GTyV8cm PetronPay.com scam	0.172084	0.202084	
15HfdDGYJP29J1MENCaC7KCWCq unnamed service		0.005	
1PktPwDM RenrenBit.com exchange		0.075	1.145
17v5W4TSi Zenocapitals.com scam		0.005	
3FYPWjCcvoHBcsCe6P9dr8RhMql unnamed s	0.004169	0.004169	
38w2gQckM2WKKKjrVWu7WRzYI unnamed service		0.005	
1KoVusCzgzbUK9ryfDjhByewYI unnamed s	0.003685	0.003685	
38i7L9G2z8Fh9JuZ9fFtAWShC4K2 unnamed service			0.01
36a3CNJZDfzgVva5t5wmpeT4A6e unnamed service		0.005	
17umSuXyaPWmdbU8562cKZHW unnamed service		0.005	
1PLF4HuhSgpnBJ1AdjDHK7cUYFSI unnamed s	0.124147	0.124147	
1MTYaSB5JyQRlaUnxkpfvJuhNF6I unnamed s	0.434513	0.519513	
1B6TM3epET9STSqg4pp1mF7CyZf unnamed service		0.02	
357Tq7eRyoCZkb2RMifrvmqZKjXn unnamed s	0.000702	0.030702	
15qBmRM1zSMu3vn8TJew2JR4A9 unnamed s	0.018373	0.023373	
3AcAhDeyNLpUc4Ae7mR7QhzrwF unnamed s	0.014923	0.014923	
3637STgVH5tV7hdHf5H39p3AoGE unnamed s	0.002447	0.002447	
3QfqRAK31CHYMall.net scam		0.005	
bc1qukshladra85ace889gcd68khe unnamed s	3.419553	3.644553	
159f2JjHxCT2QhqDQ63yKzqNY5Cf unnamed s	0.233703	0.273703	
34wtZ7zeYdKiGhDsgsSnxRhaf13h1 unnamed s	0.000708	0.000708	
18tMMG8XZe8iER8rLS8LuCPDutL unnamed service		0.09	
1ChiJu9XUI Btc2pm.me high risk ex	0.066105	0.126105	
32oX3gNdv BitPreco.com exchange		0.21	
3K1Acf2XQ Prosperity4x.com exchange	0.076124	0.091124	
1BKtSn86P BiKi.com exchange	0.064589	0.064589	
bc1qah6x5427gkelk3qr4f23ag8z81 unnamed service			0.105
bc1qqqp4da40dhxpqmg5wjvkgui unnamed s	0.015	0.015	
1PXvVQxqc Buybest - GoldenShop fraud shop	0.004431	0.074431	
356tHo3ULTT1AtgUa8exUepBqwL unnamed s	0.002287	0.002287	
12r6YdbFW ExpertOption.com exchange		0.015	
1ErpF2KykfRSrVvwtVS92FysvNWp unnamed service		0.035	

3DCVEaDjSbrZdA8n4tGGJ5xnu484 unnamed service	0.005			
37HsYT4GwpuQpweScYHyQgjaUff unnamed s	0.000925	0.045925		
1GQQ1yQ9GHwu2TxfuAX7iqgieTk unnamed s	0.011885	0.011885		
3EDVMN8NZcxy8xEK3vrxriHeTaqC unnamed service		0.01		
1B7Eicj6vEKdrF5kNNPmwAN8x59i unnamed s	0.008505	0.008505		
181Tgyv1gD5eXMDRuxb74NNxajv unnamed s	0.00171	0.00171		
1AEWnAjtR9BSSJ1J4hGRvinCro1Kz unnamed s	0.015905	0.020905		
1PUPysYwc9Jojk1pdmLoza9f3gD8 unnamed s	0.008699	0.008699		
1Gh1oAJH2w6amhSGJ7NESQWuX unnamed service		0.06		
345hWybWUvo2ULBWFcDp7uRW unnamed service		1.575		
1DGhbi6nx Zaif.jp - FISCO Cryptoci exchange		0.03		
32ApDqp572b8trc6NLSciXaFytseB unnamed s	0.008574	0.008574		
1Q3sXhqtvoovDGo7TKr5eXPB6KZ unnamed s	0.000987	0.000987		
12ffoHdvxQmbiPkAK8XUJN8qVmI unnamed service		0.02		
3GQ2wNLZ9HtCRSrbAAtZ5SZ1Bs6 unnamed service		0.045		
12xbfRV5m8R71thQc7FhKeFdSz8c unnamed s	0.017447	0.057447		
3BMEXuajJ BitMEX.com exchange	7.225745	11.51075	9.15	
3KEoSJnL7nhGNtg2h53eJWyxdWk unnamed service		0.005		
38CD4hhaGVrBxoGsLUS2NVfHYUk unnamed service		0.01		
17KCo2pjyVKEz8j7HTq2fzaNEoeDc unnamed s	0.001933	0.001933		
162QZxHSRC2nTLQuikH35m6EoiE unnamed service		0.005		
1MCPcGbn Huobi.com exchange	5.581902	23.1919	130.355	
1HrWX79CsRokhYgQYmHuqYM5u unnamed service		0.045		
1BdYF4dH2 AscentTrader.co scam	0.02573	0.02573		
bc1qk4s0gj InitialTrades.com scam	0.251968	1.801968		
338dUSR3V2ddxt2K6s75SuAk553s unnamed service		0.035		
1NuJojzZHkCqHe6o9Xn7re9D2RW unnamed s	0.001752	0.001752		
14fTKFKKEpbkUoPWJvhhuMr6yL unnamed service		0.04		
1Cm6YkTIV Kuna.io exchange	0.325522	1.395522		
1DWxysF7GPRYGShNxL5ux2N2JLR unnamed service		2.385		
1CgWKj81dNnLHLKT4gFYu74dsdc unnamed service		0.185		
bc1qzfufy96whdcddy7y5cjtknumt unnamed service		0.015		
3AjRaoDCA Roqqu.com exchange	0.507796	0.697796		
38CXLSZmNn7aciMZ4Q5k92RWgP unnamed service		0.07		
139Xet5aGAFn5ByW6Pk5F9pZg6 unnamed s	0.8843	1.7693		
19qCf1YF8l Stake.com gambling	11.69898	13.37398	0.055	
36terEhN72rpdp6SRcAsoBLfiyDhC unnamed s	0.000338	0.000338		
39ot9YgGe GetCoins.com atm		0.01		
3AJRhWyParzm8kt5sbV7rfM5hNz unnamed s	0.183449	0.228449		
36x5UzqA8Cg4vQk8VuzBuBzfM36 unnamed s	0.013655	0.018655		
1MjHUCYrr bitbank.cc exchange		0.015	0.005	
3GecP9riVCw6Ma6MY3GrerVwgic unnamed service		0.015		
3G2LAtU3Wx6nwkQFrYuziqjrRW2 unnamed s	0.006587	0.006587		
3EaYvt57cxThUJrsm7KhczCfUEJkI unnamed s	0.003149	0.003149		
3K32Wx9sMAYisRdorgMsnobqp4 unnamed service		0.005		
14Mu1PbpgjErAiWaABbG5BS1xM unnamed service		1.555		
1FQKfTmySKi7NgowQzKKPtcQsdsl unnamed service		0.025		

17xV3gGCxGKtidANsoUWHkK5pk\ unnamed s	0.016909	0.016909
36xkNe4UV8E5SXs3T5WhzZUWW unnamed s	0.0005	0.0005
1JMtxeMRBzQmgoqv84APpKfbc\ unnamed service		0.245
3M6Q1pTJ4tfgVxWtqHPBixnRi3u3 unnamed s	0.071323	0.156323
1MQRp2bMytR9L4Fzp2jYg7vj5LW unnamed s	0.018464	0.018464
1P5TNgM4 SolelyTrading.com	scam	0.520046
179rreqN\ DigiFinex.com	exchange	0.128651
31h8ZQB4\ Bitbns.com	exchange	0.433764
32KWN4PHx98PKLp5k6K7KmUmS unnamed service		0.015
3EJiEBxpSFAzHWmKasYoyGa3Dxh unnamed s	0.628176	0.663176
1LkbJjWPYekWzCJL7D5v9L2fVXgxI unnamed s	0.002421	0.002421
1LPhim6HcPMsqyyPvfPtU92u86f\ unnamed service		0.57
3CQ2MXBt6mFy9W4AbktEWDSY\ unnamed s	0.087444	0.087444
374pZaX1f6aezioitcvL8tqe1Cepgc unnamed s	0.010432	0.010432
3EdgAiXKxgC3AnBiymLAhhhGgUyt unnamed service		0.02
3NEXay7ro1XGQRUF7Sas4WSUYy: unnamed service		0.005
32zBmdDe Apollon Market	darknet m\	0.035711
1DmmBgTpDnPkWF8m7V6pZoh3: unnamed service		0.015
132FexKHT Bexplus.com	exchange	4.037591
3MckQ9buMqstaMg4j6VmJnmDD unnamed s	0.088678	0.108678
1PtNH8pRZVTtsjHNqxKYJpSpk4v8l unnamed service		0.005
16Di4Zcc3E SouthXchange.com	exchange	1.571963
3DZWq1y6zrotRTUMFxQnBRxrq2\ unnamed s	0.002142	0.002142
bc1qw43dzyceuqcawfn52hvycmm unnamed s	0.213221	0.238221
1EHbssL3u\ Indacoin.com	exchange	0.035
1EtKhaWW WorldMarkets.com	scam	0.63
1J9Sr2Kg5x MyCoins.ge	exchange	0.02
1D97uQU3 Goldux.com	high risk ex	0.002273
3JsgMqhxY VNDC.io	exchange	0.02
12ekFeEKyyoS5xkQ8kijqGPqvfxfGI unnamed s	0.000926	0.000926
38gL9Mig4VpAhBMUubpzYMFFT7 unnamed service		0.01
3GGsrah7eueM9YsSM1PGCwEsM: unnamed s	0.030205	0.050205
1Knfy3m4\ BitPay.com	merchant s	0.892037
18sZS2uaX\ Circle.com	exchange	
1FUufLSdn\ BitCash.cc	high risk exchange	0.02
3LfR7UAGr QubitTech.ai	scam	0.755389
1HNMSmD8A9rtGpc98CXxYvTW4\ unnamed service		0.02
1MmL4q8FTQc1TzmhnUz94n9g52 unnamed s	1.143156	1.533156
357RBteB6TBonxqngbHFGn8kdLb\ unnamed s	0.007395	0.007395
1KnMmnUvYuTWp1vA5Usxp3v6u unnamed s	0.000228	0.000228
bc1qcxx84\ All world cards shop	fraud shop	0.01
1G6RzfXghe4dfWa2jhMPU2u3WT unnamed s	0.00121	0.00121
1NL2HNRyJ Luckygames.io	gambling	0.061505
32rK5VFc336YTbP7uavkTi9idVT86 unnamed service		0.005
13WAPtWZMSjV1EDiat3EyVc3ydl\ unnamed service		0.005
14rHrNhiRCpiraWsf2G78EYK9TQp unnamed s	0.005115	0.005115
12dH5WZKLcyG6gxg7oiYgrvcR8JQ unnamed s	0.01523	0.03023

bc1qxf3t7zs6wz4k8tfaveuzgmr68	unnamed	s	0.007444	0.007444	
19St1kMfCPs4kar2F5AJBwV4HMX	unnamed	service		0.005	
1BFg5uDnK32BNhPGtrML6ESi3Do	unnamed	service		0.26	
13G2uGwTfCF3zv3YfjY4rNq2z4zd	unnamed	s	0.007755	0.007755	
bc1q29mfq9d9t6clyehwc383c25z	unnamed	service		0.055	
1EDSymLZ47pPEbpUKMBknk26kg	unnamed	s	0.059595	0.739595	
1CsBUC7NN9JTXwu1HiZcUcVKrT9	unnamed	s	0.015608	0.025608	
1FhFT4MKqtBBETdRpVPT7vp3xxw	unnamed	s	0.005446	0.005446	
35xjREkk6yeBM3i4SgYiUb18nhDy	unnamed	service		0.015	
1FL9S45yNrpNeNdQdnuEdnPJywR	unnamed	service		0.005	
16Euvif3W BTC-e.com	high	risk	exchange		0.02
1B1Fmw4x1fsbBEPcabey3ccjwHS	unnamed	service		0.085	
3KxHhNNgtWHMDJSMGrLspXCuL	unnamed	service		0.03	
1LbxmPeJtkpy6LXSM3iLjq1MZdbR	unnamed	s	0.002575	0.002575	
19Mebbapq55KBvYgEBQDpZTwi8	unnamed	s	0.008539	0.008539	
1CoiNMixq CoinMixer.io	scam		0.003787	0.048787	
3CC6SMbo Wallex.ir	high	risk	jurisdiction		0.015
1E4wTKtmj CoinOne.co.kr	exchange		0.156204	0.246204	0.005
3CkQA7LpBc6X8UDMmiuuRjxD5g	unnamed	s	0.004926	0.004926	
1MusK7suL BTCDay.net	scam		0.001218	0.001218	
1PquEhAbz TheFiniko.com	scam		0.030283	0.340283	
1N6nkeR2PjzfV6jYF6iK7L3ekXpskc	unnamed	s	0.001682	0.001682	
3PFxxLTUNSV85KgunMh5JuM1j7	unnamed	s	0.446745	0.446745	
1JV9F3mTVZVP233KAsWzv188Kcv	unnamed	s	0.000586	0.000586	
3Gg3aHzxzxWf8x45DLjFCB14yorU	unnamed	s	0.004701	0.004701	
14FihQisKYVxu9MkgdoFfveW937	unnamed	s	0.003328	0.003328	
1LDuVfyXryheza3X9hingUeu4tiv2	unnamed	service		0.02	
1FqzNi9mc MaxiCapitalFundsLtd.c	scam		0.109455	0.109455	
15Ye3aEfTPReuqyvCFzUTDvq4GJE	unnamed	s	0.029551	0.029551	
12CrX1wWSvsC6SynHzuPAjEBVoK	unnamed	service		0.025	
36W2U9o9XHTjr6EPq9zgF3Yy8ryt	unnamed	s	0.001511	0.001511	
36bJXmvHgujHjmuA9aMXwcmc3S	unnamed	s	0.001326	0.001326	
12mqm12B4qQhhSLMNAYYDFa6A	unnamed	service		0.3	
33qZnV1xS6WZDFVnwpgw9Xw9B	unnamed	s	0.002513	0.002513	
1MQRVKRja9jiPsCxHZNk2fgFGRyV	unnamed	s	0.0045	0.0045	
3JMjHDTJjl imToken - wBTC	decentralized	exchange	contract	5.895	0.025
1F8HS2KG85z7FZFDX8ajBV3FvTsd	unnamed	s	0.010853	0.010853	
14SjhzyiEDo67cyVf5bLbF35qfD7JF	unnamed	s	0.001432	0.001432	
3L3yWuezCGyH3Pi7M4oBw3PH5	unnamed	s	0.0018	0.0018	
31h9v1mX4vKVTd1g5aZgvo5cVM	unnamed	s	8.377926	8.642926	
37JodXT55Yvg8mfXkf39BF6wcTun	unnamed	service		0.005	
3M4tBGZp53oiZrbhagwT1htMS3Z	unnamed	s	1.113985	1.403985	0.005
14Muf2WsAik36ZBmTZhnrXkaGUl	unnamed	s	0.001908	0.001908	
3A54d7DbWkrfxMv1bhDmdr42hp	unnamed	s	0.055	0.055	
3FzPhoZFYNAYcAcZqtzNiaPtB7z6B	unnamed	s	0.16624	0.16624	
32GMPNuf Busha.co	exchange		1.271229	2.201229	0.005
bc1qwycsx Monopoly Market	darknet	market	0.0033	0.0183	

1Hufi4FuYi PaxForex.com	exchange	0.247774	0.247774
3CqmWERb6SFvhC4DJUFTwubz7s unnamed s	0.001595	0.006595	
1GrbDEZ3u7DypPCijhZf3agTHUFX unnamed service		0.32	
3H8tVP36JAYxWyrZrTzgnnQzYZxLl unnamed s	0.010553	0.010553	
1LtCYaR4z1 Bitvo.com	exchange	0.015	
1FKPL8zPo pTokens.io	exchange	0.01	
3NTA3rpqGNf4dJBuGya7jKYu8KNI unnamed service		0.045	
3FAfkK8jvHZdPHxMWai7MYZniRy unnamed service		0.01	
32VXTiHv7gkhg1XJhLVVSpdzWfE9 unnamed s	0.001527	0.001527	
1CNP8ykYr Hugosway.com	exchange	9.703395	10.9084
1JtPEWSC1 BlockOptions.net	scam	0.192251	0.192251
3Qq9qiwWPnqPphVA64o2qkVExi unnamed s	0.00252	0.00252	
33xV7HPW Quidax.com	exchange	1.346849	1.956849
13W7iTcKw3Am9g2uHXgNJZDN unnamed s	0.000812	0.055812	
35c12qopmbUvuN2s1VG2zxSd9w unnamed service		0.03	
3BC9vCoDo3vVtDvuDZZgUTWqa5 unnamed s	0.017598	0.017598	
3FZXkHL3uLog9PWxsJnGQhMpPM unnamed service		0.105	
bc1qlkte4plf8vxnyzjgul76yj5ral40 unnamed s	0.0003	0.0003	
3M2bxFrnLP7JzmVa4odYpYhPeRP unnamed s	0.002519	0.002519	
36EgSU8W Minerift.biz	scam	0.089685	0.099685
1LvxdWHi Cryptonator.com	high risk ex	0.374698	2.244698
1F39QcL66Zo8hmP8SErG9oR8wJz unnamed service		0.015	
39RtzoWFy PGIGlobal.trade	scam	0.092631	0.387631
12R1TJM1ciqjtExBsLbroiF8LJuNmJ unnamed s	0.00277	0.00277	
3NFfb83F PrimeXBT.com	exchange	17.42963	20.36463
0.21			
1Nz4Rq2HE4zD2MVpcmu7Rz5SDc unnamed s	0.002794	0.552794	
3Bj2jVXAdl Changenov ChangeNov exchange	15.39742	0.002014	58.36242
0.107014			
3BKriAneGX9M8b4X63oh54g59m unnamed s	0.007257	0.007257	
3KkdJKuBPoiF84WG9WL3SSiZfFnf unnamed s	0.005	0.405	
1LbiKVKAJfk1KRK39bhgNJLwjJrE3p unnamed s	0.099739	0.099739	
149yRpLsD YieldNodes.com	scam	0.490577	0.775577
bc1qpzcfsv memo.sv spam advert: other		5.47E-05	5.47E-05
1MLEmSPYY2YfdAENa3hAXCKCWl unnamed service		0.18	
1AbWusa9aWWCFk8SjcRFGWqT9 unnamed service		0.005	0.005
3AwbyjaE9xCT47jxUXwppNjGHKz unnamed s	0.001161	0.001161	
1PKEhVKK7otLWkEdEXCZ2uPSeaG unnamed s	1.482342	1.507342	
bc1qkguhpps6nkeqap7cz7easkyt unnamed s	0.003392	0.008392	
1CbPu7RR5TVEbQaQKAtP8BvprN unnamed s	0.00595	0.00595	
bc1qtphhvzuju44xtvl3delxkd7pl7g unnamed service		0.01	
3L6MFP7Jz EQONEX.com	exchange		0.005
1FvQ4YuuxSfhykGDeojXmvKjYiRkI unnamed s	0.002548	0.002548	
39B6BLkvD5EL4drskhj7zS8yJZxm4 unnamed s	0.003277	0.003277	
1HEfio1kre Cryptopia.co.nz	exchange		0.005
1DKGRGJXGNLAtTeFb9SNPNHtrkZ unnamed service		0.005	
32sFBWLdKAFToyNkU11bSu2CmY unnamed s	0.001199	0.001199	
37LXVoPWwtBF6SiKJ5yFfPg2vVyB unnamed s	0.0833	0.0833	
3PdgWRBXV2WhXmBa76i1wjdQq unnamed s	0.026287	0.031287	

1Fx3UUuXç Zebpay.com	exchange	0.222811	1.542811	0.005
1cECeUjaQgzD2jSVvXiS2N2j4mLuł unnamed s	0.008313	0.008313		
1LjAK2WCsoPkFP9Qn3kdM22CyQ unnamed service		0.025		
18Dg1mdw Queen-Casino.com	gambling		0.025	
1PcMwBza6Tb5t8iEUZBfjYVH3c3D unnamed service		0.115		
bc1qpuStlyd5ks2k6k6tms9xrpr327 unnamed s	0.027651	0.027651		
1BFVrpFur Totalcoin.io	hosted wal	0.0441	0.1641	
1KtPiYnBmeJ3CHDCSNseFXLczDiiL unnamed service		0.005		
1CnWzFrRSteu23AAXkULHt6uXSH unnamed service		0.005		
1B16khJvBj Blockfills.com - OTC D€ exchange		0.165	0.8	
1BLT5HfwPtxAwkGKxYJAMUowac unnamed s	0.010665	0.010665		
3QipF9vgx6Wn9TtPZhQryASJ5d6t unnamed s	0.006648	0.006648		
36nA3m6uL7WcYTT1AekHEMEry5 unnamed s	0.037235	0.412235		
1Ene14BJ4 Whitebit.com	exchange	1.47951	2.78451	
3M4nRwrji GXNitrous.com	exchange		0.09	
19GCPNXz) LuxSocks.ru	fraud shop	0.000283	0.065283	
3PTJHLqGf3GZphSka1FfTey9wKMI unnamed s	0.001	0.006		
3DEi5HHAvgCvjaBHQrJKyRoD6nJsh unnamed s	2.375821	3.330821	0.025	
39avPvZpHZLoDXQt7pLm3zAM9z\ unnamed service		0.025		
17VUBbZRj Joker's Stash Market	fraud shop	0.010772	0.095772	
3JSogEzJbw BitGalaxy.net	exchange		0.02	
34dxYiVy22Xj1UXaS4tVVYGwNyM unnamed s	0.021585	0.021585		
1GEz8o8an Energycontrol.org	other	0.069209	0.069209	
157EDTdFL Kraken.com	exchange	227.1991	315.1441	21.63
3Qx5LN3LsmtiKAM1i83ZZ7LibSv4l unnamed s	2.861422	2.921422		
3AwRasMAwkFUawY3jroNt5c336' unnamed service		0.01		
1Nb5G2S6tisQ3nq6ZY7K13oBWhJ unnamed s	0.00436	0.00436		
3BysbwiUp9LqvMAJy6bHeVqTwm unnamed s	0.002283	0.007283	0.16	
1Jz9nwPL2A3FWLEW9Njv6cXyVBł unnamed s	0.003345	0.003345		
1MnWNniHdgMgQkUzn2NMbQav unnamed service			0.05	
17aZ7HervotJ55JnAVFr2QGdVVVv unnamed s	0.009508	0.009508		
3JRBuATZFGXBx4joyM1BfM2JmVt unnamed s	0.001752	0.001752		
3LKS8S8jU6XzJhCXH64qCz54Sm43 unnamed s	0.060473	0.060473		
395qv1nSk9jzDboM4CiS52XSTCzy. unnamed s	0.603752	0.608752		
3Nurm7uuo2dRaH83kHxb06CTLXI unnamed service			0.965	
1FcmhcwpbJc41qLoVNkUCMMKw unnamed s	0.020658	0.020658		
19tuQvtPiwpxGEptjANEKjXDyC5H\ unnamed service		0.025		
38D8WTQwUafHWdr4E5fgK9gPxc unnamed s	0.008785	0.008785		
12H28MfCC4JZNxTfVRJjLDgvw4yK unnamed s	0.046045	0.066045		
3Ph2Hsajb2mCDEmA82TRGpPFiuł unnamed service		0.015		
3KTkzwucfbkf3AkmpAMYDgVjPY unnamed s	0.044943	0.044943		
1PaYKX7MCXtQzwNi4Q819UjWRE unnamed service		0.095		
38tHykRirK19RjR5hK4hqYXSftFSJV unnamed service		0.08		
1GfZdZxEaCgwwW3iQG9dLkcBVF\ unnamed s	0.002096	0.002096		
12780kLec' AAX.com	exchange		0.34	
17F9EG6sck4Wv6Ess8KpXhC3Ek7\ unnamed s	0.022852	0.022852		
15SdoFCiw Poolin.com	mining poc	0.08453	0.08953	2.29

3CuwMAM CoinZoom.com	exchange	0.598399	0.743399	8.02
162tEx4PmuLLKhtEdKAW6v13p7X unnamed service			0.015	
1HqGi8e2b OctaFX.com	exchange		0.045	
1Gymff1Z5 IntrexInvestment.com	scam	0.172299	0.172299	
37SJr1TNFQJKvfXLtbCLRy57cwQH unnamed s	unnamed s	0.00075	0.00075	
bc1qdwIlk BlueWallet.io	hosted wal	0.184733	0.289733	
1PbvbcRv4WxCFFYSrXNteNqMfig unnamed s	unnamed s	0.027273	0.027273	
3MZihDBFmagp7ijuc1oVswWqRD unnamed service			0.21	
16Dd4Npu MrGreen.ws	fraud shop		0.02	
1Q88eMvg Easydeals	fraud shop		0.005	
1K2b8gBg5 Indodax.com	exchange	0.145086	3.050086	0.26
1P6pvnhedXNiAosjjzuhXG8LDAXE unnamed service			0.065	
1NbphwKcUowpVBY2YCqH2eCPjE unnamed s	unnamed s	0.010174	0.010174	
1E3Qt4xaD SecuredCryptoTraders	scam	0.006781	0.006781	
bc1q4zkrmq92ksrs5vd82mcehgcp unnamed s	unnamed s	0.010797	0.010797	
1123mRrE1 Bankomat.cc	fraud shop		0.105	
bc1qq69gpyzspxt94mfx858fklzedt unnamed s	unnamed s	0.001727	0.016727	
3EM7hJRRB4iGHh2o9B4VmZgN2C unnamed s	unnamed s	0.0033	0.0033	
bc1qpf9rar48jfgvqy0a534klmkgr5 unnamed service			0.01	
1Mipj6s5hXtVpsBpBxmU16CyEwF unnamed service			0.145	
13hLyfRHg XMR.to	high risk exchange			0.005
1CDVnFDF Any.cash	high risk ex	0.011548	0.421548	
3LWLRFx7igjuZi7m6Zh9nKtbsLqjb unnamed service			0.02	
1FYQ7ymZQyHF6NJ54yZkv8KzTuY unnamed service			0.01	
bc1qt0ncf0 MDL3.net	scam	0.01	0.01	
1cCtcDjYirVXGnUL8dvFFxewT4mfl unnamed s	unnamed s	0.00563	0.00563	
1ETm2FTcqpSmRZXGef3UHsLfBkU unnamed s	unnamed s	0.002187	0.002187	
1B3vq3aYvvwTrWj3Uis7FsuYVa1P unnamed s	unnamed s	0.007832	0.012832	
1MhzHHss7a8qmGaRfKjBUKe121 unnamed service			0.005	
19QaoHxdI incognito.org	p2p exchange		0.95	
3A8iW5ME7pa3bi1pxbL7qvKkWjh unnamed s	unnamed s	0.022386	0.027386	
1Apoidqz5wQqMDszY1f6TEu96ha unnamed service			0.075	
33QpaTQNRR2yA4KxdNrtsyimt31 unnamed s	unnamed s	0.001231	0.001231	
1Ed4bFVaMfd5w79Ef5Yiz7yyq4Q unnamed service			0.005	
124YFf57sxdW6CfkVC1yG6k1cTro unnamed service			0.01	
1DsdTfdDKZXqkPgAExU71Dt4tNH unnamed service			0.08	
1C1rFhgBnVRuwYy9QopcaVkrMzC unnamed s	unnamed s	0.000732	0.000732	
35Ca5e2sxb1Pw3MbeRiC288763h unnamed s	unnamed s	0.320846	0.410846	
13Dy3vbF6MaK2ahUNhR2oYEgSH unnamed s	unnamed s	0.000971	0.000971	
1Pdx3X383VwxayiFvNcYjHkxWvJV unnamed s	unnamed s	0.023834	0.023834	
39k8YhfbQ LMAX Digital	exchange		0.045	0.205
1FAoDtbFC BrasilBitcoin.com.br	exchange		0.145	
3LNibQtvwrja2bGvZ8qCgtCmeqSjr unnamed service			0.025	
3KwP1Rfqx CryptoBrowser.site	other	0.017457	0.017457	
3GaRfjis5C AMIGOS Shop	darknet market		0.08	
15iksRMot Bitvest.io	gambling		0.01	
3P3f4HPPHwF4haeGbrHuXSi74f6L unnamed s	unnamed s	1.128278	1.278278	

3B6T5vFJcKxE1FVZ6bxkvPzdZ84P7 unnamed service		0.035	
1CuoeTJYuuYDix6zXqPcAgjTxksTsJ unnamed service		0.005	
3Ccen1tus/ CoinFLEX.com exchange		0.375	
32hjziv4SZvTBXotaSwpWTtMuqxunnamed s	0.029109	0.049109	
bc1qr7rvfn7chaphg4q95hsz9tsqpg unnamed s	0.027953	0.037953	
3PYT22usYsbyPehZf9zBpUKVVzLm unnamed service		0.13	
1frsHKVkyx9KA8ja3P3N1GTSPqS8 unnamed service			4.18
bc1q9hftrhe0wgav80qmywx9tn5c unnamed service		0.01	
bc1qp36fs205hvth94nx9sxysjfsx0 unnamed s	0.0011	0.0011	
13pULb5BfB3cqpgUGE4nBFrj5Db5 unnamed s	0.537726	1.702726	
1EGZhVvL1 Viva-Minerva.com scam	1.380528	1.500528	
bc1q3zkfkx3kn4njs3vsjte6nlpmp3 unnamed service		0.03	
3AtUnMeh Hubi.com exchange	0.008449	0.008449	
33uy5rdfk1 Satang.pro exchange		0.025	
366dMTppFHMm6G7fMrsUvFufLF unnamed s	0.001148	0.001148	
37CVDJixrA6jqYVax4XQRb9Hn4EH unnamed s	0.028219	0.033219	
1E5ewaCvctN2nDLGbVvfeE3BpcjT unnamed service		0.045	
1BGcPW9q BitMaxCoins.com scam	0.01311	0.04811	
bc1qqyefvant90hw8aeu3j7zgky6f1 unnamed s	0.025482	0.025482	
3Mftxy9Lal WOLF.bet gambling	0.002116	0.002116	
bc1qfsx63snj9gnklklyzdt5ykssmqt unnamed s	0.011362	0.011362	
3Ppa4vkDc Unknown - OTC relate(exchange			0.01
1E7v1Bw51 NimbusPlatform.io scam	0.0317	0.0317	
13DdfKxdE Korbit.co.kr exchange	0.451	0.456	
3AbBpdoQnLBvMZHGszCgCe5mKE unnamed s	0.011488	0.046488	
1EBjLQE6Fvi1LfKHx9rhmnn7pDkxTz unnamed service		0.075	
13FyLXYQJw8GuGthGpBE11Ety6c unnamed s	0.037586	0.037586	
14TCgpA97aJWPhVYcnQSxM11ejC unnamed service		0.07	
1GKh6Vm6 OGS-Investment.com scam		0.005	
192PMU9vDnrt8gAGYrvP7HhkugE unnamed s	0.005905	0.005905	
1HjdpRr4ziF7kGX3pmr3JAVPPj8R unnamed s	0.006	0.006	
14gbmBo3 Purse.io merchant s	0.016684	0.036684	
1CUneudHPc9A4zXGxBTcUGzHh2l unnamed s	0.00051	0.00051	
3PBZiYKBwmYUFuepT293YEpzHQl unnamed s	0.170587	0.170587	
1P4rxKTgPQQ4moojfgHfpNrxKeRE unnamed s	0.012909	0.012909	
14Dh4Z8bipBzAwPPdximrEbPwqk unnamed service		0.005	
14TGQ7hApbtTDtppBQFuuymLVx unnamed service		1.995	
13PhzoK8n Coincheck.com exchange		0.075	0.01
1GCtiRyoMNBEDgXseCiKTidwsVar unnamed service		0.005	
32KSWzNTFvrkzhjrtDUKEWDMoC unnamed s	0.131267	0.131267	
1PRZ2cDYe Bitsler.com gambling	0.29158	0.31158	
16cXuX54V Ripio.com exchange	0.000176	0.035176	
1Q3T61RZF NitrogenSports.eu gambling	17.30022	21.83522	0.025
1E9Z9iv4Ldi7uA669fNSh28BEjwjBi unnamed service		0.025	
1E8BoJDHr SlilPP Market fraud shop	0.008704	0.083704	
1CsfSWxabeBbpobEokcCig9YFFUj unnamed service		0.42	
18ZiAQUgnZB.com exchange	0.086719	1.166719	

1LrfeSBhAε Coin-Farm.net	scam	0.001456	0.001456
bc1qug5ga ThorChain	exchange		1.665
1jXHqezHGGfhoqCXM8PLJG17XQl unnamed s	0.002603		0.002603
1JEWuNbRuJ4HiQphPgDye7gsW5j unnamed s	0.004408		0.004408
1FUmu6LsAtDwnRACfqQi3bGibZsI unnamed service			0.015
112YtkiJFVNDN4Nu03yy2WxqX9w unnamed s	0.018251		0.018251
35MLBMojBKeFFgHAVDccPE2CtKF unnamed s	0.002028		0.002028
18SFq6p4bmzbhbZT6GSQa12pd9f unnamed service			0.01
3EfsyrofEq! Bitvavo.com	exchange	0.005	0.045
1ntb2HjiFB Unknown - OTC relate(exchange			0.01
37SqMcQNYvyUVXjCnTKisSActKAs unnamed s	0.000433		0.000433
1AFyHbMkD3khThcyWnodAPHkdI unnamed s	0.002681		0.002681
1BiyKHB2H EstamaFX.com	scam		0.015
3KmQnjVV1REi9hAj4taGKxkwNJCt unnamed s	0.095514		0.105514
15A2oB7UgytiLR9jpZLBP2fUome8 unnamed s	0.018674		0.018674
3H6mybEiFMn74UjULmmvYtRLm(unnamed service			0.01
1LuXmdSw MtGox.com	exchange		0.125
12L7TGYHppGAftp8xHCP8s8ZB7r3 unnamed s	0.014758		0.064758
33XCRUnzPwaeDqfCkQYDRhCJKQl unnamed service			0.035
1NALG1vZj BTCStep.net	scam	0.02	0.02
3Qqr6Z3NiL4ySqfF69hwJV0qBNA5 unnamed service			0.01
bc1qtwedf4vdm4w7frt732jwjmy4 unnamed s	0.043668		0.043668
1JDMvSPsvnEQnxtXZg1ko8sFKLdw unnamed service			0.005
1NrVRvD19Bfs3DtbA39fNFxANSsc unnamed service			0.755
1D6aSF1oSyedYpCcy1ERuMJsXkfd unnamed service			0.005
1329yFzoVQMvkn8ie5Sx2f5LUYe\ unnamed s	0.0016		0.0016
3DUHDZqTbF7eqKwvqDSDVd6J5r! unnamed service			0.02
1NsDwpSTK7zwh8V2GK3GwSfAEv unnamed s	0.001925		0.001925
3DD1hKortQhjbLtZvTqBtUA1e1UP unnamed s	0.008726		0.008726
bc1qr2x6t7q29pu3fht24xn3qcgpr unnamed s	0.018172		0.018172
3BdM8T1qfDdYttehrh27mWgXhii\ unnamed s	0.001484		0.001484
bc1q9f09wlcsz9juf25vycpsz8m5nr unnamed s	0.004461		0.004461
3GSzUZS7thwz1w3Y8S2eJm6KLHv unnamed service			0.015
38mqnRQLtWGMGwXJHMtR8saQ unnamed s	0.0095		0.0095
1J9Jd6L5s2g4Ywmi2R81eL3TH5oL unnamed s	0.037295		0.037295
1F5bfN9hoydgAYBdujKqNE2krL7Y unnamed s	0.001697		0.001697
bc1quxr4qd3htsmwecmfdesd3p0f unnamed s	0.0005		0.0005
34uDfcUrt9ZNh7EjUSEFZUDgMes€ unnamed service			0.01
18cPvKDfrYcLpH55zZCp9CDKcJD9\ unnamed s	0.001581		0.001581
18rEawauRMheC6qi8hyKGN2WpE unnamed service			0.02
3AzdigCcmvRd8vvdg6j5DLWR6Xg) unnamed service			0.005
16PXVSPe1ep9CoPuaqsegcjWc9Vl unnamed s	0.0041		0.0091
3DcDg4r7WxNmBFX9Nvi1UevWul unnamed s	0.000599		0.000599
38h5JkU7wB8GseKnE5nQGjWEzCl unnamed s	0.004829		0.009829
3Li6tRmjheTSdJM7W9yteYXQqXEj unnamed s	0.000449		0.000449
35aDdzQcsCwZLRot1KPYq9q4Cin\ unnamed service			0.01
bc1qx05hzz5qt7u8ggj60c70dtd9\ unnamed s	0.001083		0.001083

13TvvEQLFZN6g2oroGfn1GMqvYb unnamed s	0.00137	0.00137
3BuTfxWdVzVBCkbB8WuwagKdfh unnamed service		0.01
1CVb4voAŽ BitZ.ai	exchange 0.011436	0.026436
1AYTZLhPN GiftGemini Giveaway i scam		0.145
38ea7dV6aJjGFuwgneFcRfjd1y3na unnamed service		0.03
3EaPZTdBBLV.co	exchange 2.864768	2.864768
1NCYeoBskPs2Sq4Q7B5dMdaJ8D\ unnamed service		0.2
17dC3EsSH BitSeven.com	exchange	12.595
1958oM2r5dzspeqhDRJDbrNq2St\ unnamed s	0.008571	0.008571
1LiLwUZFS1p9oxgXxavwiDutSEx31 unnamed service		0.09
141QU5PC Thodex.com	exchange	0.005
1DVcJBruiAkGmRFTfrLjv9fAHkXyrl unnamed service		0.055
1BrBGvYdc CoinCola.com	exchange 5.057872	7.897872
3872fg3XJeA5HMfpz8FCEaNVExiX unnamed service		0.005
1JeojVvPvyus7oDPu9ByG83i2tfpD unnamed s	0.004687	0.069687
35NV1tVYRyHQFwP7drtbW285hz\ unnamed s	0.020314	0.020314
19Xenm4suCmcuSU2E2nb2CjRiuu unnamed s	0.013058	0.013058
1LgfGQyugbmtbTabuGMPnWV1H unnamed service		0.005
1FVVQGSszBQzqQseCZNbaf5FrVzl unnamed s	0.003508	0.013508
39QDF6SGn9Czm6cGLC6h4hLH2g unnamed service		0.01
3AdRGgNotwRYXaQTzWD7r82Jvvy unnamed s	0.008747	0.008747
1AvfdKH955gpf7wNxQcHnaxosCV\ unnamed s	0.005143	0.010143
3J3SZpnoiktwq46WotHwhkp3Zqe: unnamed service		0.03
3K9sS5WN Baksman.org	high risk exchange	0.03
1CrAG5r4e CoinTiger.com	exchange 0.296623	0.301623
1GhwjLVSNheXHW83Cbbbg7sQeE unnamed service		0.015
12LF1bqBBe57icLXQ8vu1f5juV4m unnamed service		0.015
3Mcs6vfvt\ SamouraiWallet.com f\ mixing		0.015
16zHkkns5LxHmQFTMvi7Qgwy3p\ unnamed service		0.55
1HYHDR21CPPHeDxcPMBs44R5w\ unnamed s	0.003091	0.003091
1Bu5qshWAwXbknaLzDRjipL2nWj unnamed s	0.00299	0.00299
bc1q92g35s78fynknea87w5trwye: unnamed service		0.015 0.055
343FouKENNGWV\ k6ckVTqJmaaPk unnamed service		0.015
3DCa2uWg Coins.co.th	exchange 0.540021	1.035021
14UT8AWsiLZW\ Cb818F5HaZetUaj unnamed service		0.01
3K4sHSwHiheKY4GSCv12pNCAei6: unnamed service		0.06
125LHvA4PQV\ GbNHUvVXw44ws9 unnamed s	0.011105	0.011105
34puxiy1oERoQcLSfNZf4Wmamqk unnamed s	0.106255	0.136255
19gcFrE83NQ992HpxTxWdskn5o\ unnamed s	0.007849	0.007849
bc1q99czu! Reported as stolen fun stolen funds		0.01
35EsZ\ tCtXDTbfqChdf8C7AsCQzd\ unnamed service		0.005
1Po7JdJAv6vNNENE6uaupniaUqY\ unnamed s	0.04995	0.06495
16nTegE27cn8Kc5SQMyccunTgTk unnamed s	0.063417	0.063417
17jiJDF4J\ p BitcoinWallet.com	hosted wal 0.867837	0.877837
bc1q0cqe7frxuzpyyvwjr607cjpwu\ unnamed s	0.393623	0.718623
3DTjnAGuLubCrbhNTTae9cgsXcSH unnamed service		0.01
1HLcdRT6UumKTFNJXVAPK25YGt\ unnamed s	0.001652	0.001652

1PAJP2yzRlWazirx.com	exchange	0.775897	2.420897
38hZrMiph Multival.is	high risk exchange	0.03	
3LzP6FtpGaVr2AQQYQ6bBc98yJDl unnamed service		0.005	
1DF2Y8tP13Y9P1CU62wunHYfE5C unnamed service		0.01	
1sXkudtuHG8JVxV3StF5Sunmz2tq unnamed s	0.001619	0.001619	
bc1qmvx526ylawzyfnpr0rc4sq3h5 unnamed s	0.096216	0.191216	
bc1q2m4klu9hjyzcz5y8vtwjpeyj0h unnamed service		0.015	
15uLSCu1bB6N62e6Xakk1TiLkqKT unnamed s	0.019536	0.149536	
1D4aFFdFLS354rQ7MJJADhLMKyq unnamed s	0.007171	0.007171	
1FzkLyDNBoeJbHv9vffSw5bm72A unnamed service		0.255	
31q1q174LGgJK2QyMWE LmGXuR unnamed service		0.01	
1AaY59NahrMAdBGyyuKcnyYnjHn unnamed s	0.004741	0.004741	
324j2QbC5WZNN6eTGecdV5bKbjl unnamed s	0.000692	0.000692	
3FHGpyohoeiXBs61sZjGhEopGDxA unnamed service		0.015	
164d9x4p9yX8sP1WparCFxBwnhI unnamed service		0.15	
3GKTRi1xAAvHT1562kjj7JBNTWaY unnamed s	0.046499	0.051499	
1HUvMpbbiCEWeMNMFAVpKoAv unnamed service		0.17	
14f5DsXVC MINE.exchange	high risk exchange	0.035	
3A3RsLwG2AWDcJxZcx3KcUCUYP unnamed s	0.028083	0.028083	
bc1q8p4vmvg56e2q2ntpchg2egc unnamed s	0.006008	0.006008	
36sH6xiMkUAqBB5pjWUSCM8dtE unnamed service		0.075	
1KGPbQZL6VynNCZ8Ww19euHyo unnamed service		0.01	
1AoJNaWXs6Tjv2WeZsCCd3ajMa3 unnamed service		0.045	
bc1qxjmm8fvdcxqur8r6m5j73g7p unnamed s	0.000896	0.000896	
31khhay5BmzwLSF2jmiwLjkqmSh unnamed service		0.03	
17tkmccARrLjkJAjTcGPSzcQ1RLHy unnamed service		0.7	
13LAVA8DHR23GhZX4e4bqZkWH unnamed s	0.007757	0.007757	
3CAaWUmXgw1ammiFEP7NGtZro unnamed s	0.018472	0.018472	
1Q2vBRTzE Cryptopay.me	merchant services	0.39	0.01
1LixFYFjEyrbrdyDqFwqtsQnjFGyqz unnamed s	0.001846	0.001846	
3K96HHBxSyzGhbYoYvemcZRMub unnamed s	0.008679	0.008679	
11EqVoGKdB9bfzCLWwb7SSqVYja unnamed s	0.004222	0.004222	
3CUfuDZkR8uC5hpMQs3dRs8J4Ax unnamed s	0.001124	0.001124	
38jADPP8c5N5YTKx2wUMh8M1Pi unnamed s	0.000739	0.000739	
3Gw1nBFBQGzznco6aqabcPSpe4p unnamed service		0.01	
1CSq5C4HK9r4wMxP2AaiWNNXLE unnamed s	0.009039	0.009039	
1BcQC5wrdD8JZdEC4DrLxVcBph6 unnamed s	0.003625	0.003625	
14UfD6pjnMH7APduFLKftTdfmaI unnamed service		0.385	
bc1q8sea3ekrmu4nu893zafyrecfr unnamed s	0.000867	0.000867	
1LnxBuv5AoBwws9JQBDGqdXcWF unnamed service		0.07	
1Ea7zHpBPUT2H9CVXyX5ae67u8E unnamed s	0.006773	0.006773	
1DF7y49Jr4 Mercatox.com	exchange	2.160646	2.205646
33bw5VKGiQKF4oLZ7GojnGiWWB unnamed s	0.01106	0.01106	
3Bc2TqaMvBwgTJLDLYjUtsFqRQ4I unnamed s	0.002922	0.002922	
1BBhCGPQ Changelly.com	exchange	0.081969	0.841969
1KjZBQ93a Gemini.com	exchange	155.7452	309.9902 111.095
3B2doVSmsPMrciRgrpfJwEGX4JC unnamed s	0.012735	0.012735	

1dMMyquhBaHHhnYPaCTiyhi8khc unnamed s	0.003592	0.003592
1BoNpqLcQbn85m6ZNZjxovw7Lx! unnamed service		0.005
1Ha3dS6w! Bitso.com exchange	1.794082	4.674082 0.005
1Kcr99fKKU7Wd2L3XQL1bweugW unnamed service		0.065
17XmGM8dRosxYHFAC75FEP5Tfq! unnamed s	0.002153	0.002153
3CUWuPdC Benumb Shop fraud shop		0.035
1DKfR4npVaxZqJ961WpT1epmwR unnamed s	0.020241	0.020241
18uB3aM1bUNgatHHyLTTzMeCo! unnamed s	0.000864	0.000864
3F5ntKAcfcjYATEzneRA82AvFm5w unnamed s	0.003913	0.003913
3PUFyFj23RTUt4Wq9hJD48KRoAF unnamed s	0.001392	0.001392
16jHJMr7WpKhNd8pdWr2MZ1pq! unnamed s	0.005648	0.005648
15vwJpHJX XChange.cash high risk exchange		0.005
1XtfE15BnvtUScRLkbTvNFF8QKfH! unnamed s	0.028516	0.028516
1EzsmGzvSjWbqAq2RG66j9AwXN: unnamed s	0.001235	0.001235
15eyMeLG Dcoin.com exchange	0.27791	0.27791
37xoqtqmbTfQKKRhmWTfgUYh1i! unnamed s	0.006037	0.006037
1FbT8qydDBCtRWdj2g7oYzGU\$19 unnamed s	0.001357	0.001357
1J4ph5FLef UnitEx.one exchange	0.282894	0.287894
1QGnvUa6DRqrofDsbos6ytANEmc unnamed s	0.002577	0.002577
1BK79K8R7mqMYowAB9BrPFBG5 unnamed s	0.010329	0.010329
1MjECsYrdRWWvzD74316jzEHA8! unnamed service		0.005
33z6oGnxNE2Y6B4cUdnrcTWd1Js unnamed service		0.005
3HsAvCQuPLPt9hpRnDUeyszsMxS unnamed s	0.001562	0.056562
36YS2yKrW EurekaX.io scam		0.005
33gDXMpnhRTL5kiuFZZhq1E13Ms unnamed s	0.029907	0.029907
1KAxxNZTuHDD12CvBMWP9HkxL! unnamed s	0.005014	0.005014
3GbbdVuHSn3xdT6f4GcAdwveNB: unnamed s	0.004033	0.004033
15HNUoVES8HaVteMnejgejJHNuR unnamed s	0.02471	0.02971
bc1qpupge SamouraiWallet.com - mixing		0.01
1M9rpQ2g GoUrl.io high risk ex	1.400457	1.685457
1PTC5ewvCY76AysN961vCe1ftq8c unnamed s	0.429182	0.429182
13D6QVUDRbX5vmmXcmbMViM! unnamed service		0.025
bc1qv6scxvy6p5v58ukrnrxpjyjyt0! unnamed service		0.07
17a9fnAsR9fbdfgGuGd32AKkqZVB unnamed service		0.005
1MLy9sru56qRDxxsiTYmxJ6CKYf! unnamed s	0.000281	0.000281
15opG1AXbpJcyJ7GVi4yNy6FZki7! unnamed s	0.015786	0.015786
bc1qapqnx6gcevs8v4ess4djf5466j unnamed service		0.005
32HoFfZbSAw9jDhT989F1sVhPyJN unnamed s	0.01676	0.02176
3JysdboHfxJNJAYA51wkqsK9QNnS unnamed service		0.02
3AYgpr6JB! redeeem.com p2p exchar	0.220948	0.220948
3DDmbqTJst3nkEH52K IDDB4K3SA unnamed s	0.009988	0.009988
3NDfmk6VLRq5Z4Qxt444qAAeL4T unnamed s	0.034107	0.054107
16yvmY8LA1RXhWVfmYLSRyT6BD unnamed service		0.035
3E7YbpXuh Chatex.com high risk ex	0.009663	0.049663
19FXJx57tx1yNoNHq8eMiqxndQC unnamed service		0.05
1MmV7Xxj BKEX.com exchange	0.087941	0.117941
1HYCSQdbq8YZroLB5fbTnAZFH6d! unnamed s	0.001767	0.001767

15PugmmLmdGnerz4Xwh7gbwPzI unnamed service		0.015	
15jHo7ezu NYDIG.com	exchange	0.055	14.93
18SxtstZnjCnRBVnGMK8MEhnAZb unnamed s	0.001294	0.001294	
3NFxWYCQJNCybVMUhdeutyjW6t unnamed service		0.005	
1MpEYiDDQbganpuFGommYxb5ty unnamed s	0.031507	0.031507	
37ZzPpS7ewammcyMsG2cFHUWL unnamed s	0.020403	0.020403	
1A1sj3sDPWDxtt2saBdvKHuhB9vF unnamed service		0.32	
3FamvQdaUxHBUUbcSufjKAGAhC unnamed s	0.002268	0.002268	
1PkddNAQ6z11ez6iD2vbtv9jph8D unnamed service		0.035	
3Abw48AY P2PB2B.io	exchange	0.343725	0.393725
1EyUhw3GwsRGATABpP2DBZRqh unnamed service		0.065	
1F4Umi6h FXInvestmentsLimited.scam		0.17	
13pYnRCihur8JB5tSmtCz37nQ4n6 unnamed s	0.003307	0.003307	
bc1qesg5fqu6rhj4umk9hazlja42 unnamed s	0.016043	0.016043	
1NYcKuujVTrMAQks3tjgjLePvjbes unnamed s	0.011416	0.056416	
bc1q8n3q7r6rs07szetkmzzyx0xp9 unnamed s	0.001167	0.001167	
13PaVyCKn3GknzNXUmHar3HUTP unnamed s	0.006038	0.006038	
1Ayz1YQTjexp8ouiCxBmQ9PNAG6 unnamed service		0.005	
15WgajYQbMFENQQm1dpXv2LW unnamed s	0.014405	0.014405	
14VbVafSR Ionomi.com	exchange	0.005011	0.005011
3DHy26eTz6AMmJmdbuawzc7eg unnamed s	0.003597	0.003597	
1LwV8T7Q BitSeller.com.br	exchange		0.035
37KWmcVfw8qcbmq6pLYKaC8eU unnamed service		0.27	
36qbZbZ2N BitMix.biz	mixing	0.041276	0.136276
3Ev6xoY3FpXWzeL4FHmbjStTJkFb unnamed s	0.003335	0.003335	
1ByMKvJhYgdANSriHcbJ8j9pj4wdc unnamed service		0.095	
1PGd2LvCrmXLbfcLR25FdroxwUR unnamed s	0.006097	0.006097	
3J9MjMz5k SparrowExchange.com	exchange		0.01
1LC5iDQTu2RSbd9HgCw6Eo3puHr unnamed s	0.000534	0.000534	
17kQY6j4TjBo11qiziPJ2vKYYHuVCz unnamed s	0.000843	0.000843	
1P8RpGV7WYHiBLZH9nhxeZkLAG unnamed service		0.185	
1Cmkq5Zql 365Cash.co	high risk exchange		0.03
1HvjUWDYMDU1X8ekoJQUJssxxkti unnamed s	0.00588	0.00588	
3466VynRfGWJNhqoxCrG7RXm6n unnamed s	0.005528	0.005528	
3H8QATgbGy6V7nVuLq655f9JzM unnamed s	0.388366	0.388366	
3N9YydsiGyRwPD24RfDzUEyd3qH unnamed service		0.015	
3B15Y4MPvXZZDnKW4bBecTSEDp unnamed service		0.01	
1DqDqjTBr Huobi.co.kr	exchange	0.015	
bc1qdnqwj9yvq4wg4vkrc27c36za unnamed service		0.005	
18i4hFd2gf SofTradeAI.com	scam		0.01
12nnBHpxgryGatWzbkeUGGmMZ unnamed service		0.01	
3A3ZTN5pDizRZ57aour1Mmk4FjJ unnamed s	0.026222	0.026222	
3JU4FDpKAoyLH8D6jUmuhM8Y1K unnamed service			0.01
12Lkg79Jkc Hodlnaut.com	other	30.98483	31.78983
bc1qzqye8dsfq688lzkjlrlqlvkdtrey5 unnamed s	0.008031	0.008031	
1A87YAygokCwnTW4h5bp4Lh5Eq unnamed s	4.190968	4.390968	
1583MDNk SharedCoin	mixing		0.01

1MkF9SNp Unicc	fraud shop	0.145763	1.120763	
bc1q7wlf2ughu9sf0s6drmruevlji unnamed s	unnamed s	0.001559	0.001559	
38DPYmsa MoonBit.co.in	other	0.01014	0.01014	
3BRcC5jBbocgMefRGGNmPABi9R\ unnamed service			0.02	
1Fpw5pdDRsQfhnKtSxnmBwq8Un unnamed s	unnamed s	0.109839	0.109839	
1LUUEYsHMEg8JvzJH251tVyRMLw unnamed service			0.005	
13MbC1db3SKvrKNj5BY7mKfd7vn unnamed service			0.025	
31vDoGasF LoanTech.top	scam	0.025733	0.025733	
3MKN5LeH BlockFi.com	other	731.833	804.933	0.285
bc1ql6u33mhlphh6dgs8h7yxexwq unnamed service			0.015	
34xtN7A4opZrvf6nJXoA456iwzmrl unnamed service			0.005	
3HkuJftKFg3pX91Lj4LhGXQHbXrN\ unnamed s	unnamed s	0.00381	0.00381	
1DSuPnFWPpKRPBSLK4gByhRPAiE unnamed s	unnamed s	0.004082	0.004082	
3NQKVhtdtdCkDEnvXRkh9C1sP5vl unnamed s	unnamed s	0.100796	0.105796	
16fnGyWd\ Bustabit.com	gambling	0.081324	0.136324	
1NsHkqN5B9moZKyW4fGonPCqjC unnamed s	unnamed s	0.001954	0.001954	
3MmB3oo\ BitGo.com	hosted wal	80.13458	88.88958	
bc1qfelyrhfs0wy4un5pc3jjfxh6ndt unnamed s	unnamed s	0.048	0.048	
34T17offw6vUXJNZpEEkBsueYB8y unnamed s	unnamed s	0.004325	0.004325	
bc1qua22vyg0k9mfdas7ta96mfk8 unnamed s	unnamed s	0.050179	0.090179	
16G9EaR2RFBRVM6pBrEv2SKmoj\ unnamed s	unnamed s	0.010816	0.010816	
18X7JgctubT83RBU4o6fKMNKU9g unnamed s	unnamed s	0.002259	0.002259	
3NNCq6DH PhenixFXPro.com	scam	0.237859	1.112859	
159EEUiedzih7Uur1f5GBCmrjaAC\ unnamed service			0.015	
bc1qtz65n63280s97tl8jvyr3edj73\ unnamed service			0.005	
399CmEWbbdAgkaiLaasrNEAan7 unnamed service			0.01	
1H4yEmGVE4SffiXcm2Y1c6obwpg unnamed s	unnamed s	0.001192	0.001192	
1MQKX68y Cumberland.io	exchange	0.108488	0.758488	45.5
19yTZ9E7C AmericanCrypto.com	atm	0.091343	6.096343	
13AyBJMyUzxm6FEBihM34YYAX8\ unnamed s	unnamed s	0.003685	0.003685	
38wChBzgKEZsngXukpDjLA2fubbe unnamed s	unnamed s	0.035594	0.060594	
3FSYFUHL4yTMAwRrkc24vp75Ebs unnamed service			0.01	
1EVCVf97v AlphaCryptoMiners.co	scam	0.005472	0.005472	
bc1q8gffqsv0cfysgwp88yfrkgnh2y unnamed s	unnamed s	0.001867	0.001867	
3QaRFHyrk LocalcoinATM.com	atm		0.295	
3AEYyQ1jvQR1JFKTjctNapWU2jXg unnamed s	unnamed s	0.199898	0.204898	
33a8xqHz8fQypuEGDs8eokyoqcel unnamed s	unnamed s	0.003826	0.003826	
37DnnpXebGJC72bAfAXqZZaeXBA unnamed s	unnamed s	0.538592	0.598592	
bc1q2605l02qmjdvxvk2mx33q9ks unnamed s	unnamed s	0.038098	0.108098	
1JvMhYCDgYiktFDqL1sxwqfjkeQq\ unnamed service			0.015	
3AN6ohwQxuiGYW6ngF3yUHFCDI unnamed service			0.005	
1AzVJz2fg1id6cwzhaEiRePTtKrnxr\ unnamed s	unnamed s	0.014476	0.014476	
1H1Hsn1EQhRqeQQU8A9zEF4Qu\ unnamed service			0.425	
135cH5Frc55pJu9RFQj79vBPdjAS1 unnamed service			0.04	
1H2U97kR\ BitBonus.top	scam	0.005	0.005	
19omSnSYQgX4UVAd6WAanteR3\ unnamed service			0.615	
3A3RgxWq BTCTurk.com	exchange	1.320529	1.860529	0.025

3777wEHpEzLFVCyV16EnoZYao8.unnamed service		0.005	0.065
1Ba7moKd EnvyCorporation.com	scam	0.005	
1AZtbQDxWATKDMnTQo8Xd62ED	unnamed service	0.01	
1QHmqSYp8Dce4wsFiNhqmQKRJA	unnamed s	0.000911	0.000911
3A6Kqp5Er1rns14VVvEkH8YDXAK	unnamed s	0.001738	0.001738
3CC3TUF1b4tyUG7GNZkMm3w5L	unnamed s	0.000972	0.000972
3HPQs3vgD2RSx8EkgWfjeLaDQBF	unnamed service		0.01
1LsQcrpHbFeWQdovz2Vs7hGqCta	unnamed service	0.02	
3KGJW6zRekqazyKMX7WGzwrM7	unnamed service		0.01
1ATn1Sc2hiGemHmSCW2HJnQJ4	unnamed service	0.005	
37MghJLTZ Xpesa.io	exchange	0.01	
1KHQhdH3GB8rDuQMuKe8eXaQ3	unnamed service	0.035	
1Mi5KTCvo8E6CWwKctPSqvoSEgc	unnamed service	0.025	
1D4gWiUzdizpsA7TxCyNQBM1JCZ	unnamed service		0.005
12ZKAKZgF Antares.trade	- InterCh scam	0.185	
33PggwXzAawDB8XhUouQN4N5c	unnamed s	0.019796	0.019796
15f9cZMxw FatBTC.com	exchange	0.006192	0.006192
34Q11fgea Bitcoinz.io	other	0.000937	0.070937
1FqLEWyMKpp71pWMxYzPdvAn6	unnamed service		0.03
156k47MTHTsfEXUb8JM4K4b3nP	unnamed s	0.053498	0.058498
18JMZyduBcAY1HzcTMkD9gVeUq	unnamed s	0.000819	0.000819
33TdfNrWt Nominex.io	high risk exchange	0.11	
37Y9stfVioqhZu2QU8ZHCiucHFo4	unnamed service	0.035	
35CxrW6zgYwuXSjAfp78QKi8doyZ	unnamed s	1.912133	1.987133
18zucdrZwBsNZXNC5MxkJT15Whl	unnamed service	0.005	0.405
3MD2MuM3m25TBFB1kjMjN7kQ	unnamed s	0.125	0.125
1GkY5jm6Qyze3aTdQ9xwfiShPhvs	unnamed s	0.000115	0.000115
17Vayoqdx Chamath.charity	scam	0.052689	0.052689
18wBfxMCjBFJeRG3PFzLMjynPQv	unnamed s	0.009046	0.009046
1Kw5Sjoz1geC3deejiGhicBajC5Lxq	unnamed service		0.01
1A6x2cSUkeHJPUjHd8c2gQ35d5y	unnamed service		0.005
bc1qjryksn26xg9nwj277xrjdpm2	unnamed s	0.001261	0.001261
bc1qqdqjethqk5z8tj862zlv2t75e2r	unnamed s	0.014495	0.014495
3BFZt5kuWjXETZrUXBLvnzSTdAj8x	unnamed service		0.005
39xZ2eEMb38C3XmykJPwUcQy	unnamed s	0.009617	0.009617
18YgfT9AW FaucetHub.io	hosted wal	0.001	0.001
3NLJ4XSxG73opUVEUFtcNRxEu2r	unnamed s	0.028788	0.063788
1qPwtQsVFi3Cjy9btR6Hxu5cGdk	unnamed service		0.025
1ENmnkfFU7o2hhipPBSzsQzToa	unnamed s	0.006608	0.006608
39dha2GLl Bitladon.com	exchange		0.03
1CNZtzXSEW6bUqb9q4GRZukBU7	unnamed s	0.003323	0.003323
3DU2s6QA trade.mn	exchange	0.000271	0.000271
1JB7uHk3qw1Qhxf1DqW6GHPetC	unnamed service		0.035
18EoVvWbQu9sQPAmtS4yUN2WJ	unnamed service		0.16
141qBgFW EuCanna shop	darknet m	0.00815	0.01315
15HTDcJot5A8PVLhnn9Eu8QRzQz	unnamed s	0.002522	0.002522
1H6YiHSjkG9AmzmmQRbuyUNvF	1unnamed s	0.009999	0.009999

bc1qsmkl0mqau8zqscnvu3yzja3yx unnamed s	0.005644	0.005644
18J8oNYjem7DbSsLvtuN4NNM1R\ unnamed s	0.0207	0.0207
1FZSTcBcJdkNWqsa18Sc71BaA6xh unnamed s	0.00298	2.30798
18WhedLC BitBazaar darknet mε	0.04395	0.06895
16NCFv5bhG5qYW7wTMzvaJjjkml unnamed s	0.012169	0.012169
39dQjQYpVRpH59eUJGM85teGGf unnamed s	0.050748	0.050748
3C3wyZ1wzDH3ror1qaqe6ZmCMl unnamed service		0.135
367PqwMkucRjmwy9HXRmWRcG unnamed s	0.13861	0.14361
137mEaUo IndependentReserve.c exchange		0.03
15ZQnzRztw9ViUWSWRsWZNryx6 unnamed service		0.085
3Lpoy53K6 Garantex.io high risk exchange		2.365
36EAqnTD\ Nexo.io other		1.525
16r3FLpxvdT9DF63JgpEmXdChFbT unnamed s	0.001294	0.001294
3PNVF8Cr\ Oscar Market darknet mε	0.037893	0.052893
14W6yxEWceVbLB2gfyTMKtn7S6i unnamed s	0.002173	0.002173
3KeaqbtvqVKegVUt843ZHD6jKB11 unnamed service		0.005
36dnwzxq4c4h44ykAb42jErcMsv8 unnamed s	0.022859	0.022859
3HmJA7RMRGuZ9xC1HDLQ9XT7t\ unnamed s	0.000269	0.000269
13KDrw4dfZaWvoi9K2Lao1UDTLxl unnamed s	0.00107	0.00107
191MS7KXEJgAnojcTuJ8icE6kjTVsf unnamed s	0.020374	0.025374
16wnuWtoqsZ6PSqugwyez1K58yv unnamed s	0.002062	1.822062
1EmurJhDveid7EhotJJTtJ6RaFyP9z unnamed s	0.690781	0.750781
15TSfuWQ8b3M29vBrBFVXJUxYbr unnamed s	0.50387	0.68887
3HR1hQ53Laec8hYudhui3PwBy67 unnamed s	0.00036	0.00036
1McdkAP2zFuuVrBM83nkvb1VPq\ unnamed service		0.005
1HgAEBzU\ Reported as PedoHub \ child abuse	0.0054	0.0054
3HfrSzhegGzKdRpNgkLABKiMj3\ unnamed s	0.00103	0.00103
35qsCvSDnBYYT4wbKwTDjAEpA8t unnamed s	0.00461	0.00461
18J4fdz6cxn41JpaqLRSZ5RTaczK6f unnamed service		0.005
1JK29mX7PMLBgcyzkpjFATuvEQn. unnamed service		0.08
1Hn2ybVKbY9ag6p1sKcXs3UmrXE unnamed s	0.00259	0.00259
3NMMnhB Catex.io exchange	0.001107	0.001107
32Kvon8LE Blockchain.io exchange	0.000811	0.000811
1yotjzTSv14SfuYJv5Lp\ victim 1yot unnamed service		0.21
1HYXxcoTjvXY99ebm5kPtK4xuiv\ unnamed s	0.007252	0.007252
bc1qcwx76rgf039u6xdt2esvmrf9 unnamed service		0.005
38N6Gks8\ StormGain.com exchange	0.006947	0.031947
12owGNjbZodRWnyqWzkT98GPk\ unnamed s	0.003385	0.003385
33KMUxqH Zipmex.com exchange	0.000131	0.000131
1LJ9hZzWr\ TeslaPortals.com scam	0.02	0.02
1DddrCpMTbepvJUUL6Fj3VhDthn unnamed s	0.014404	0.014404
1A45YNkq4UmZR8R13Sz4ufPGwD unnamed s	0.007586	0.007586
3H86ixtY5nJp15VMRamCeBeLfJb\ unnamed service		0.01
17MyHfvSc Games.Bitcoin.com gambling		0.005
136gLDuSxeN7sUFwU8bsFHzR2Ct unnamed s	0.002066	0.002066
1DFzYgfExcuxypVDX1B7njfL1Lx4j\ unnamed service		0.035
39A7KcdM BitLeague.com exchange	0.000598	0.010598

37voWNe9qjyMXJCkuz6jCFUnz58	unnamed s	0.309827	0.369827
12mmtry9g2r8c79ZsGwDwGKeyL	unnamed service	0.02	
34BvsSGbRDyrgHmYE5HayeZN2zC	unnamed service	0.005	
32yFpAgSE EmpiresX.com	scam	0.005	
1FHse1FWHqCiTwpcKVPKyQ9Gwf	unnamed service	0.47	
32rGnSNfp8BHgeauw\	Bitrefill	unnamed service	0.04
15TCEmRShEqgrashzvUDhA33PG\	unnamed service	0.04	
bc1qw5c52mc9hfsfra0d5huteejte	unnamed s	0.001709	0.001709
1Q9VoyyPJebxL9UnDSymetPSpyw	unnamed s	0.01515	0.01515
156o2isRqEVSV3jCqRqHDTXx1Sso	unnamed s	0.01102	0.01102
36B7iZmKZ Bityard.com	exchange	0.362621	0.367621
1BVqUmgS CryptoGenesis.net	scam	0.008192	0.008192
1KLcVJm3KiGXDEHgXrVJMQMxBF	unnamed s	0.003657	0.003657
343QtcNdvmrthGtcF6NEukq35dfC	unnamed service	0.005	
bc1qmjnx037t0rh7rwlナルf7nxc55\	unnamed s	0.001586	0.001586
34PGryFxecSFU1NMZxDjKco8u6J\	unnamed service	0.01	
37RLGC2SRS33YimXEoB6xPXh2a\	unnamed service	0.01	
3D3TkQ6S\ Elude.in	high risk exchange	0.01	
3ECzWyTkWgLryGPf8wdygM8RGj\	unnamed s	0.002027	0.002027
3MQPcNMSA\YB\bxmGdrJ6e16b	unnamed s	0.003731	0.003731
1HnP\ADt\8JKxxc7Ng8VnqTVu6yvh	unnamed s	0.002773	0.002773
13K2quuzE LuckyFish.io	gambling	0.059632	0.059632
3QjVu6aYVtDm9sQrQHbk\cgdAgh	unnamed s	0.01189	0.01189
33f9wZshXRAAdd9rMZLwZDqgiy\	unnamed service	0.03	
3A1e63Ko\ Bitrefill.com	exchange	0.109559	0.264559
3GgFnPqrCKf\5yFSfxBeSSqzcqUM\	unnamed s	0.002117	0.002117
3BYzwtQPmKueon3kmT91WVrN8	unnamed service	0.005	
1GemEmW Gemini-Verify-Transac\	scam	0.06861	0.06861
3GAc7Shcq Coinfield.com	exchange	0.04	
3CTRXCm\PRuVNE72wj\khL15zZ\	unnamed s	0.004126	0.004126
1LPw3onMWAd8CJD\rqDpKiz3qgs\	unnamed service	0.025	27.26
3MEVYLXxsnuajYpVHQE2pf4RdNS	unnamed s	0.002286	
15Vfbk8PTnM27BvTmDxoVockBv\	unnamed s	0.009315	
3J1Cz6p2wnTkBEoqQkuSMqw1Z3	unnamed service	0.005	0.035
1A8TY7dxL Discuss Fish (F2Pool)	mining pool		0.11
114Wp5pmR7wBhGZuaixBgeUxZ\	unnamed s	42.84636	45.72636
33ns4GGp\ AMFEIX.com	scam	0.655	
3NFD7MpmJ122xGqegRcKo5Z\	unnamed service	0.005	
17TquZTTHEjE9Y3P\qeu7tYaSdH6B	unnamed service	0.785	
3PczVixD\ogf47DmEAmELn5z\oj4R\	unnamed s	0.015484	0.015484
16tSTAxtH5K8FiMcXeiTNkE8gwRp	unnamed service	0.015	
1C73949BFzz2EadHvXrUFUX74E1\	unnamed s	0.000577	0.000577
16gup43TvSHhqn6bFZnpnKJezoN\	unnamed s	0.004982	0.004982
1MTKLN\MUy3pwtQ5yssViewsTGc	unnamed s	0.001824	0.001824
19x7eBrtAgVRdj3E8YbQ51j3aUh\	unnamed s	0.002844	0.047844
17eeEzVcS2LfZyjmz1qHn8DoFWtE	unnamed service	0.01	
1PtNbx2tv8MBovyUdrJnckkgFKGF	unnamed service	0.085	

14zDZEGULYzCc6vepZ5awSnZ9RW unnamed service		0.09	
1CtCSCvL4Y8PoSgMg1nujgxmjYKd unnamed s	0.005941		0.005941
16aZ1paoMw7RkPj4FdqdyThnM unnamed s	0.006613		0.006613
1AoYRsMkjVilkov.com high risk exchange		0.02	
15AUwwGeHrc03V1mBLFxH2SgBi unnamed service		0.01	
17EKhHipQj8prCMFV9NRCfa2Yng unnamed s	0.0105		0.0105
16VNnh8jLuno.com exchange	21.5474	27.2524	0.055
1CmXNFiVAXvLRT8Y2DLye9KG5C2 unnamed service		0.315	
3BkRY9CwvCSAp9r6tMPRv2nzZZl unnamed s	0.011795		0.011795
1MUGww5KWPv4ijtnVSgwixLYC1 unnamed s	0.096636		0.096636
bc1qezl6mwfr350jg3unruy6u4d45 unnamed service		0.005	
1JpZj7RqMdoAiAsQqqqWAfG9YM unnamed s	0.021408		0.046408
bc1qhnzkzfj2d2fvujrc4tl5c3tjenxc1 unnamed s	0.002435		0.017435
1AKDBpNVDdgvz4JdqdrWHpgGU1 unnamed s	0.00122		0.00122
1GS214v8V42G59p1BFcVWYwqW unnamed s	0.002502		0.202502
3P5S7fAEEm238QqSXYb3W9WYAb unnamed s	0.001		0.001
17GJY5exG EpicsTrade.com scam		0.015	
3PC3ZWZPxnP3QcLQ4XgmVE6aBS unnamed service		0.005	
35zk7m7fC MuchBetter.com merchant s	0.01723		0.55723
15VyEAT4l Bittrex.com exchange	197.9562	207.1862	0.985
19GBf7zTw7CxwtQq6M6vKmAqoi unnamed s	0.010204		0.010204
1Ld3rkwjQzPggrEz7ktDBMkBDogk unnamed s	0.022925		0.022925
1K75wviRC7YfH8d1X2wcE7UBAJX unnamed s	0.002062		0.132062
3HPxNhffR9CS7zqYb2WqT4h2Z4V unnamed service			0.095
3Fr99x1SLF VALR.com exchange	1.08411	2.05911	
1XPTgDRhN8RFnzniWCddobD9iKZ unnamed service			0.005
32RhsN5AZLfdZVQg4R7pmj8HTg1 unnamed s	0.083521		0.128521
3GnT32omrZi5DrF9Jk1Xa4N1NWk unnamed s	0.004437		0.004437
37SsJLAHKrhPFwcwWqNVU9LDW1 unnamed s	0.006573		0.011573
1EHyTkZh6tA9dsHFJEDVr5DK5QA` unnamed s	0.340047		1.225047
3QRL3yfeAxbsfMrwa7nMBdv3SuT unnamed s	0.000461		0.000461
16N6X8XH7dgzdYyu3JLuNdX5jUW unnamed s	0.023124		0.153124
15gNq98R\ SimpleFX.com exchange	0.018147		0.148147
1Bnu8HLgg2FavyUkz82ETWPYCd5 unnamed service		0.015	
1K7WvCQuwbaSAsFMgSYnq6JnRC unnamed service		0.075	
3NKhYk4EaQ8GaR5Amy1YYQfFoT unnamed s	0.008109		0.008109
1AcCxTQT7YKHKENuDRvTTcrX5W\ unnamed s	0.001826		0.001826
1KcZqjt5vb Unknown - OTC relate\exchange		0.05	204.93
1GPEbMQg67br3EQTsSgs7jK7ivC1 unnamed service		0.26	
3CzWovvcncUkvkiHsri\ N.Exchage unnamed service		0.7	
17QVX2ugVwYmBgMDCAJWh3g3i unnamed s	0.005935		0.005935
1FSNfNyfkXMGKJxYykVtzKHaLgC unnamed service		0.155	
3GpofzwwpGLAfXk86FLw3Mk2wu unnamed s	0.001681		0.001681
1DoRgnxshukgnj4jJTsXwMZzNcGC unnamed service		0.01	
bc1qzr5cpx9mslh2l227z6nsxn2se unnamed s	0.006178		0.006178
3KCcjT1tyXaMzWW9Jfi8ur3oXztCr unnamed s	0.008414		0.008414
3K2L8i3rPiLA7mkjeLTwLPnxPzMJy unnamed service		0.005	

3Qv2BQ8wwJ44tHFshDvZhGppE	unnamed s	0.000116	0.000116	
1GLFrsaPBWusZEJTav4YZMXS4JJ	unnamed service		0.56	
1HwEvPfCPWaiQRHxP7HJ1SJzLnE	unnamed service		0.04	
1ErssAPJml Bixin.com	exchange	0.000457	0.215457	0.17
3QBftkBUXV4UqQYs4XSDvxj9QFV	unnamed s	0.00215	0.00715	
3A85PgRyeyT8cohfzm26En46S2X	unnamed service		0.005	
1ECTQbBRMLWCeV9He6rMqYa2c	unnamed s	0.001433	0.001433	
1MMieEhfxUDJz2A2SieCLRLNSSjrc	unnamed service		0.025	
167QN5vaa8ipNstCHbUmHKAPSN	unnamed s	0.016637	0.016637	
3LQrqinngZFC7gb752KEVByXrcrLY	unnamed s	0.252817	0.332817	
1M1PzW3hgGSMFnSQ8zqggGom	unnamed service		0.035	2.73
12jS7KygCf Phemex.com	exchange	88.97622	95.87122	0.005
37Ggwkz52fJGCNJVdPadeiNSBZQc	unnamed s	0.360013	0.385013	
3HM7MkB2LDggqQb3rmfq6kbd3	unnamed s	0.002486	0.002486	
1DQnH5T59iLbZYCWbjEo3dnBcFB	unnamed s	5.248002	5.663002	
1KUiVbG5DNgRMnkVesUFEes6Lp	unnamed s	0.010704	0.010704	
39VmhzqzY6esFYg2gTS24ZCqk6caF	unnamed s	0.0078	0.0078	
338zoeAKN KOT4X.cor	IV2SER447 exchange	1.565039	1.900039	
1F1sfcDMY OKEX.com	exchange	2.738236	8.128236	8.89
38wEjuX2F CyberBTC.com	high risk exchange		0.015	
38dJZXrzdUxj3B6oZz9Y65Kb5JY2Q	unnamed s	0.004445	0.004445	
1N7Hqv8r9k3Zxia5eecKD8HSqyoV	unnamed s	0.001937	0.011937	
1DfyApKmrPVQna4DCN7fuPXYJQ	unnamed service		0.125	
18uCCYLV1x29jNiTRLae8JhUv3MN	unnamed s	0.006028	0.006028	
3K2RULtA4R1YfYKrkfzz12paTnojQ	unnamed service			0.03
38ndGuobl Russian Market	fraud shop	0.004011	0.029011	
1CsWMDCr4VomV58KNJmChUCYi	unnamed service		0.19	
3GQ8vdPVAgZUdhkjrQN3W7bbaf	unnamed s	0.00389	0.01389	
13oWDLug1qDcMBVNj9xraamyKC	unnamed s	0.031527	0.056527	
3CGvCocj1bwn4cyNKCGcXAnCiWr	unnamed service		0.325	
35sfdf2mRaWhsahWK2H8D5RWi	unnamed s	0.00259	0.00259	
18VyRm9JcrH7TsFuXoRNxv9yjhAh	unnamed s	0.021152	0.021152	
3FDj5iFmr BitMart.com	exchange	35.301	39.366	
1NZcfHxwRn2zB3GqYWmcWiDdN	unnamed s	0.022783	0.022783	
3KyrbnMp8AFAhd77WTTEgaTyprl	unnamed service		0.01	
3G199HSm3RCYUkNbwybLh5vuB	unnamed s	0.007993	0.042993	
1N8hkH9sFzjFqmcrajU4vPid3mnA	unnamed service		0.02	
12gpJqMH YoloDice.com	gambling	0.088668	0.088668	
39HeCjNtw DueDEX.com	exchange	1.877379	1.917379	
1DHdCoH5aPRBExx9PAhRkcCsLk2	unnamed s	0.000921	0.000921	
19xu4Mz2y7k4U9yFtF9KzjPxhyCs	unnamed s	0.011187	0.011187	
1GGw324L3US9fs3ygzofNJGEQGv	unnamed s	0.01281	0.01281	
3FwUF2LLpvMNTfHkQLz9qR5XPM	unnamed s	0.349252	0.349252	
1PUocbxS BTC.top	mining pool			0.51
1BqeR8miYkuemBy4zvVuTUrocUp	unnamed s	0.002	0.002	
1NiZXkUL1LxAfYnzaVoFFEWxDNs7b	unnamed service		0.02	
3GBgzoGM8H79XdHz5WTbqx3Cd	unnamed s	0.001044	0.001044	

1JXJUDggT	Kinesis.money	exchange	0.885	0.005
3MyKdKdF	ECD.rs	exchange	0.01	
1EKAfrhkE4XvkpunDvqkPUVZnv6	unnamed s	0.0097	0.0097	
3K1hv8snhaNHnqAdCxT6dxYnZNd	unnamed s	0.000589	0.000589	
3C3aVvf1r3XMUjLyCbFxrCL97V3C	unnamed service		0.035	
1HFSnrYM	CoinHitFX.com	scam	1.03	1.03
1ACBbDLU8k3FfqYQsv6wvkYFKZw	unnamed service		0.93	
1CUJN28NnbEW5YFHKdbvir7vPKv	unnamed s	0.005017	0.005017	
34g3AJEWNxFucqp6i9cR1665EHA	unnamed s	0.000313	0.000313	
bc1qr5ntct2qlnry23lqpf5ufpwmjvl	unnamed service		0.005	
3QsF5JFUp	SBICrypto.com	mining pool		0.155
3CcWkaZr	AdBTC.top	scam	0.000256	0.000256
1E6Ab5Z6r2Jpzfg8Q15wEpbUA7W	unnamed service		0.015	
3GuR5ADcdkBujBqs6XxQzt9Kna	unnamed service		0.005	
1QLKsx31P	Bitxmi.com	exchange	3.944427	4.134427
1Dpo1vYNG5ogNbUnzaKPeLmBcq	unnamed s	0.001252	0.001252	
1DtGYmd2oZkXWMVd5fXYZM9an	unnamed s	0.004246	0.004246	
1HBCvTrEDWKQpH1eFMJDNBjsny	unnamed service		0.015	
3QU7bgvhVmrtURXf8o9wJG9NNi	unnamed s	0.031962	0.036962	
38SX5q8P6r9tv9QV9Q8ZJAAhrct5	unnamed s	0.246594	0.256594	
1FKoQrXCA	Matrixport.com	exchange	0.307578	1.027578
1JJnEXNQUBc9n13LQ23e4MJdAP	unnamed s	0.010057	0.010057	2.86
1GcD38gv2	Bit2c.co.il	exchange	0.337	0.347
1rAiRiHSeP	B2C2.com	exchange		1.535
1EA25qXQa1PdwHn1UbD3GRiB12	unnamed service		0.005	
3QyVG4F9	PaiWangLuo Poker Netgambling	10.01785	21.23285	0.005
3KjXcYNwSShga1cujhxj1L9ooUA	unnamed service			0.115
3EV8YoNzw4tofxtBXMPQTdjRwh	unnamed s	0.014874	0.014874	
bc1qgwtulkknqafaczna5z6h3xwp	unnamed s	0.000727	0.000727	
124TBXCGPsoN3hj64sdBrLARbVaf	unnamed service		0.005	
1Km9a96MoURctxc4SFyCNJ3UQE	unnamed service		0.005	
3BtPFNda5w4Q1vDyTCy8A19imhr	unnamed s	0.010636	0.010636	
3FhFgyY54vCd2yVdq3HhJhG6vGj4	unnamed s	0.000228	0.000228	
1PgYXBAV	OneHash.com	gambling	0.002	0.002
3KC94Mz7	Babel.Finance	exchange		0.09
19YqztHms	Poloniex.com	exchange	1.733115	4.258115
1HXMc6F5jgxqvsewNtmJYAWpQP	unnamed s	0.001225	0.001225	
1Dij2xdpvaULXKGGAhwRRzHsrrcV	unnamed s	0.002623	0.002623	
13JXeCUXUGfCbjZLMujGvpjQ264F	unnamed s	0.024689	0.024689	
1QTD6LEJsFeiJP4GMFu1yXc2PCky	unnamed s	0.045922	0.045922	
1JP8FqoXt	Volabit.com	exchange		0.005
3NroxAxbusrKuPU1fZ9i6NdQ1vY	unnamed s	0.002152	0.002152	
1YZJKaAx21	Bitcoin Fog	mixing		0.025
1LGKzbo3ELBNXYm9FtriTCwF1ib5	unnamed service		0.005	
bc1q5j60p	Krypto-Cloud.com	scam	0.01094	0.01094
3GXhLGUI66n5Zu5J7j7YJMUEX3Tj	unnamed s	0.0004	0.0004	
3Diihxge2RVXifj21v8wwXwVuNKA	unnamed service		0.005	

3CnURQLS\ Hoo.com	exchange	0.487686	0.552686	0.06
1N1Q32Yzjz9nYKqyLvkYg8RMJ2Yr	unnamed service		0.04	
12Pk4ydwUzU9pNt6wRNMyLno4f	unnamed s	0.000879	0.000879	
1DFvmCDKHy1Bz9VTHHLipej4fdrl	unnamed s	0.012067	0.012067	
3HzkcMDJ\ BitcoinWell.com	atm		0.015	
13c5DJqRKVknTSBhj5mSvzhb1z7.	unnamed service		0.12	
bc1q258gyz60rmj3v938rxzvcztyf	unnamed s	0.010433	0.010433	
1C1bm3m\ KuCoin.com	exchange	431.0302	480.3702	0.265
1G2AuvKmS69pNzrSQgxyTd4Twzz	unnamed service		0.495	
1EdfCps6bp7kmGioRiNKPuqjhvn	unnamed service		0.01	
38496c2vvm7UdejvcV3DeAdGJQy	unnamed s	1.02696	1.06696	
13nW8kHj\ BinaryInvestmentHub.	scam	7.533073	11.50807	0.045
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3MAPVBdDfx54gWLZ26rePDGU5\	unnamed s	0.001041	0.001041	
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3NiDnFsEC BitcoinofAmerica.org	atm		0.01	
14VZsej9BfUHXhZEZecwpzbwgxgg2\	unnamed s	0.003958	0.003958	
37AkMQ4dVm274VYZQsDDHAc\	unnamed s	0.001898	0.001898	
1CyBvKhQf Bypass Shop	fraud shop	0.012365	0.097365	
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1BUgsQjrb\ Currency.com	exchange		0.01	0.035
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3PDBdg2q\ B4UTrades.com	exchange		0.055	
33eTmiky2dHTj4Xc6UGR8d19jov\	unnamed s	0.003263	0.208263	

35iAvyweVRXTBvruxsRQySiKY2FL3	unnamed s	0.00224	0.00224
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1JYjwkqHJs Coin.z.com - GMO	Coir exchange		0.03
3Hn4w8tpi Dacxi.com	exchange		0.005
1292Qx5FC FortuneJack.com	gambling	0.70004	0.86004
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3KY7QVcJwD7yHbvFDhaC69GSuzS	unnamed s	0.000587	0.000587
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157qkjk4VafyXNE8KhbDyYhLjTUX:	unnamed service		0.005
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1DgKLpAgAiXZK2LrdJkcmS7bnRGE	unnamed s	0.004182	0.004182
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1LjRMffWI Binance.sg	exchange	0.008832	0.008832
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3MHhTa1B Gamdom.com	gambling	0.028335	0.088335
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1AYvPyr72uo8cMUesykFr7GhbA	unnamed s	0.002698	0.002698
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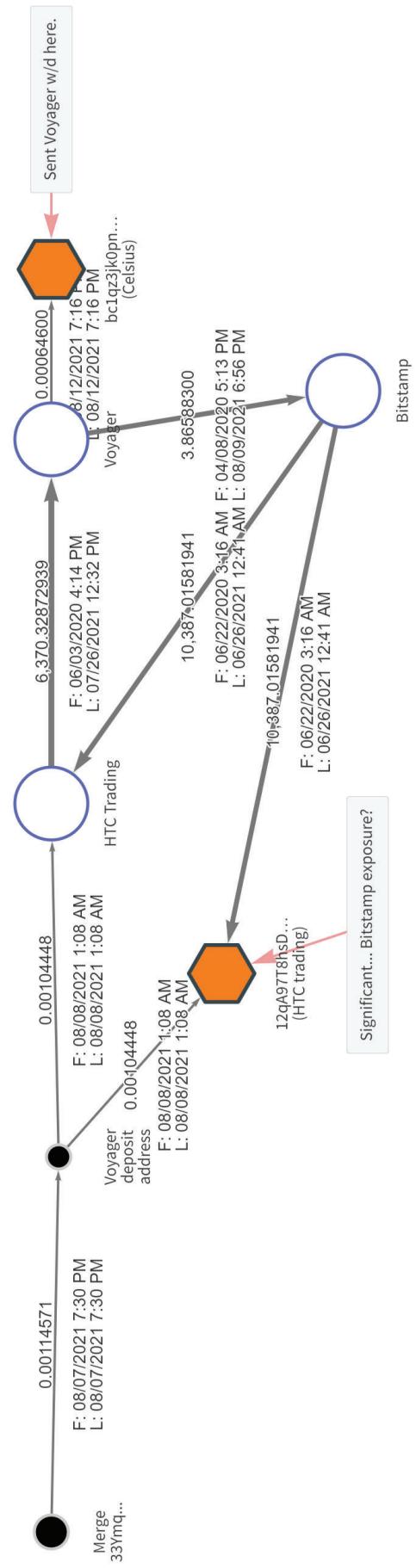
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1P9oescQVrCfTHsFCow8ACsyPyNi unnamed s	0.001	0.001
1FRdJs1wLmQoDAGLS8U9spX8j3X unnamed s	0.108467	0.108467
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1GZdEnJKC Watermine.io scam	0.292862	0.292862
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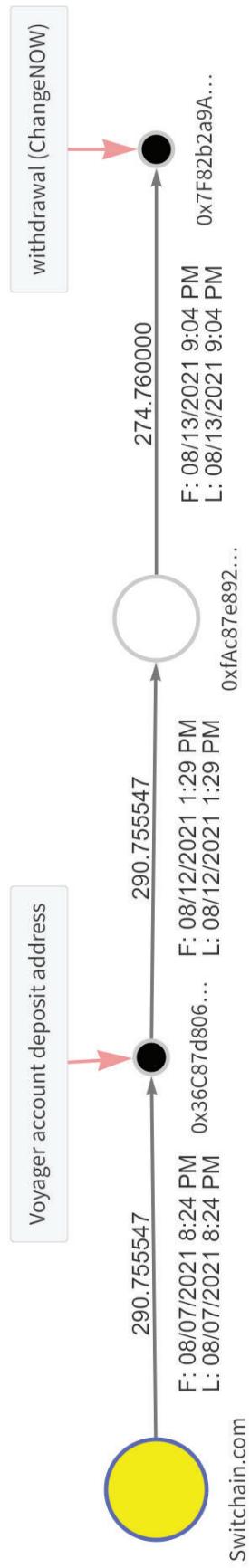
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1PtE7xFCuI HolyTransaction.com exchange	0.008809	0.018809
1GPCmg9w Netcoins.app exchange		0.005
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39zJs86396XMa9NjVk3hpp9hPGQ unnamed s	0.002697	0.002697
1BJNYJLjgtl CoinCasso.com exchange	0.061005	0.086005
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3Mh7czC91wXsKWjZ1BzmkkQtWz unnamed s	0.000624	0.000624
152AS3XLC ShapeShift.com exchange	0.032629	0.627629
35jpBJLhkUnvgqhLJDirjtirrdD7EHk unnamed s	0.164089	0.269089
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37MkKKwv ChivoWallet.com exchange	0.07329	0.14829
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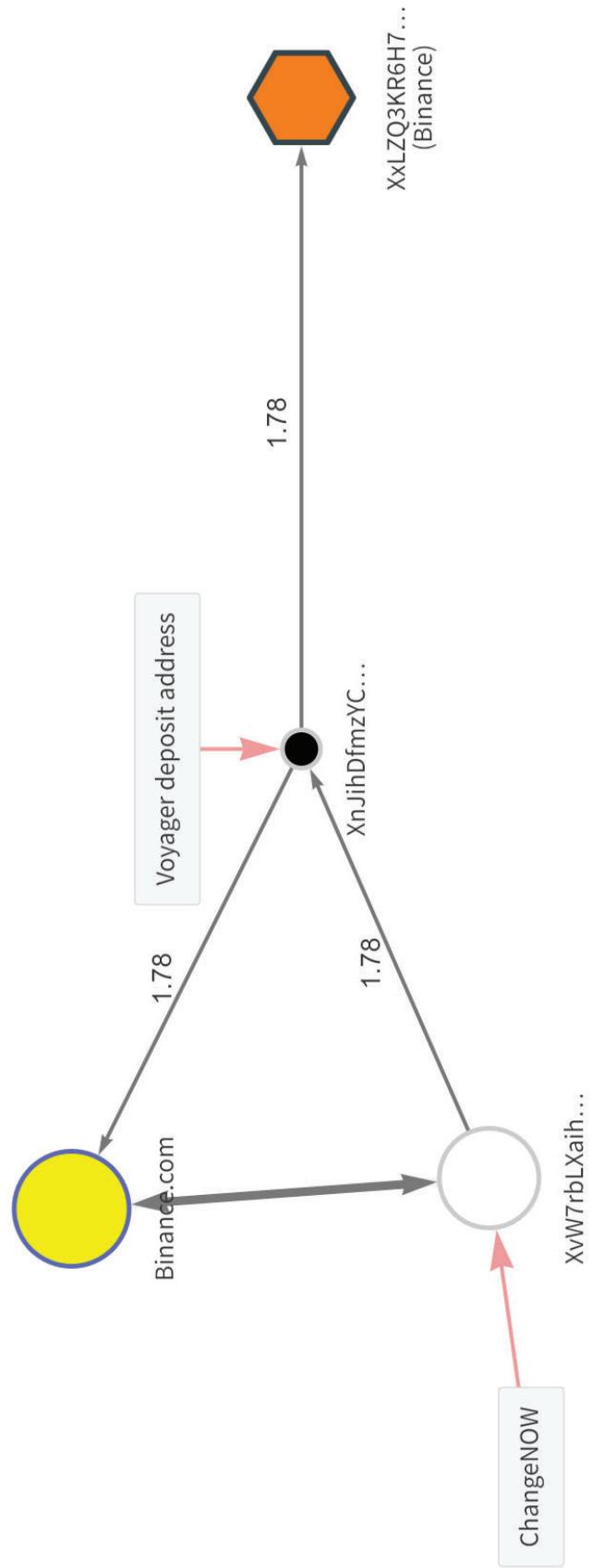
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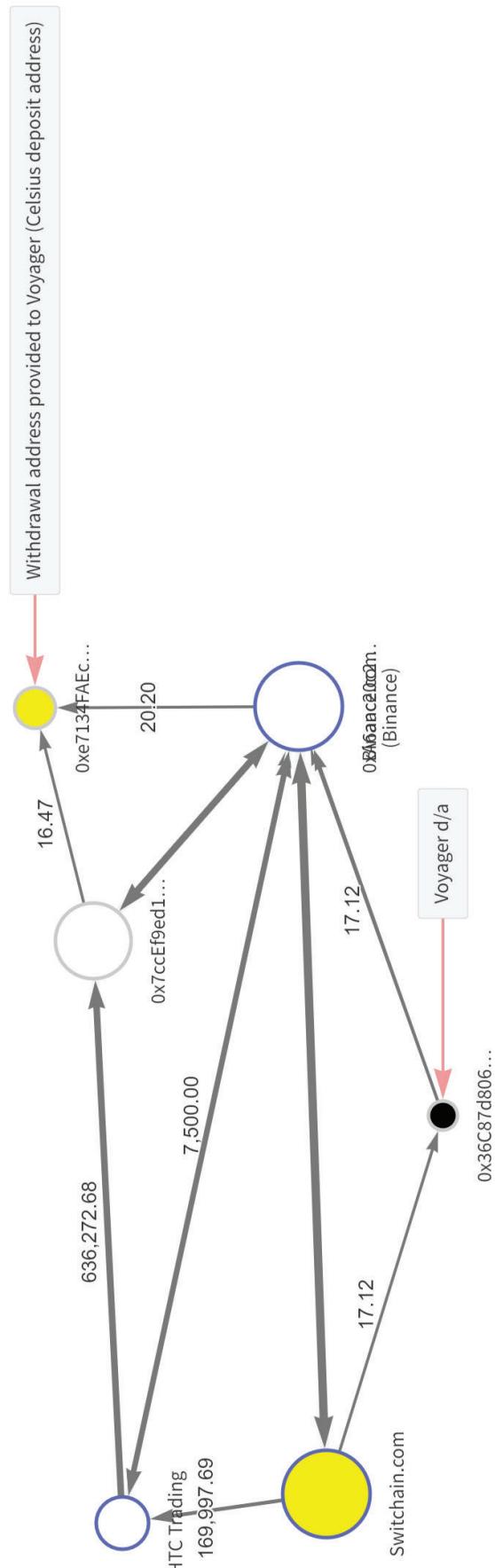
Exhibit D

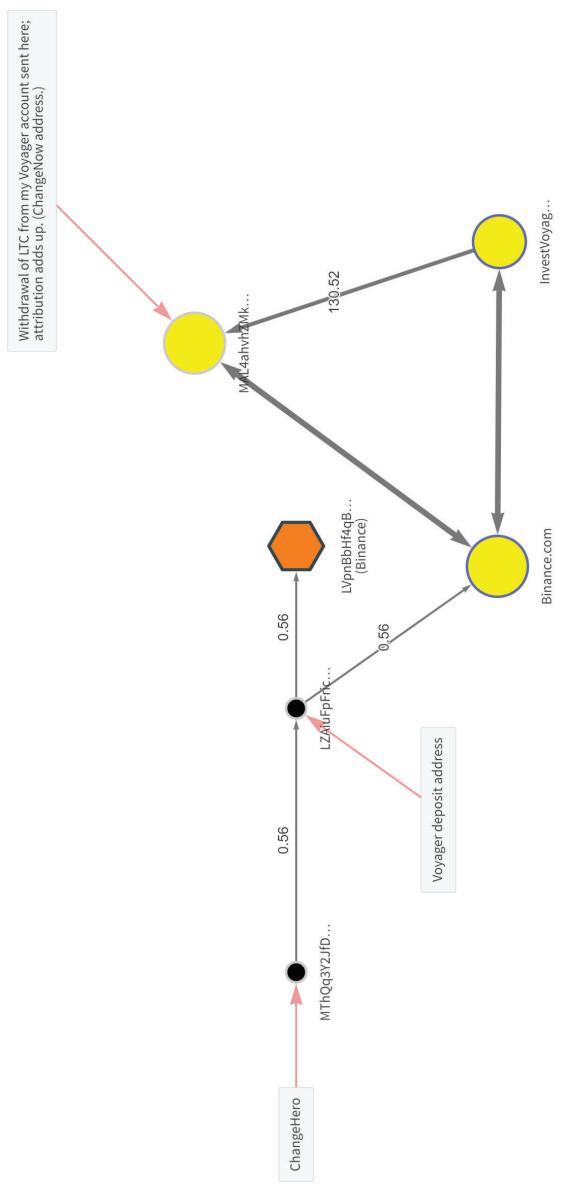
(CipherBlade Preliminary Expert Report)

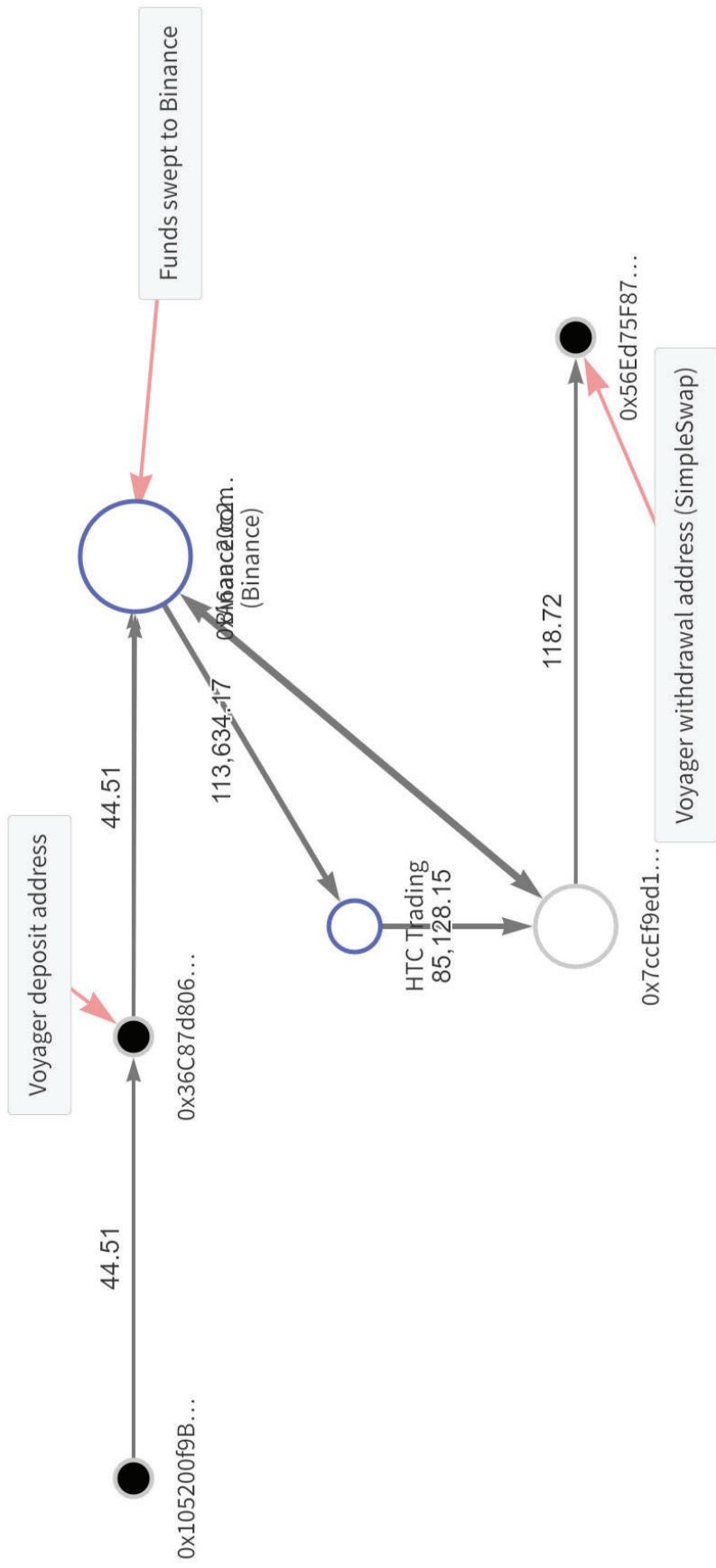


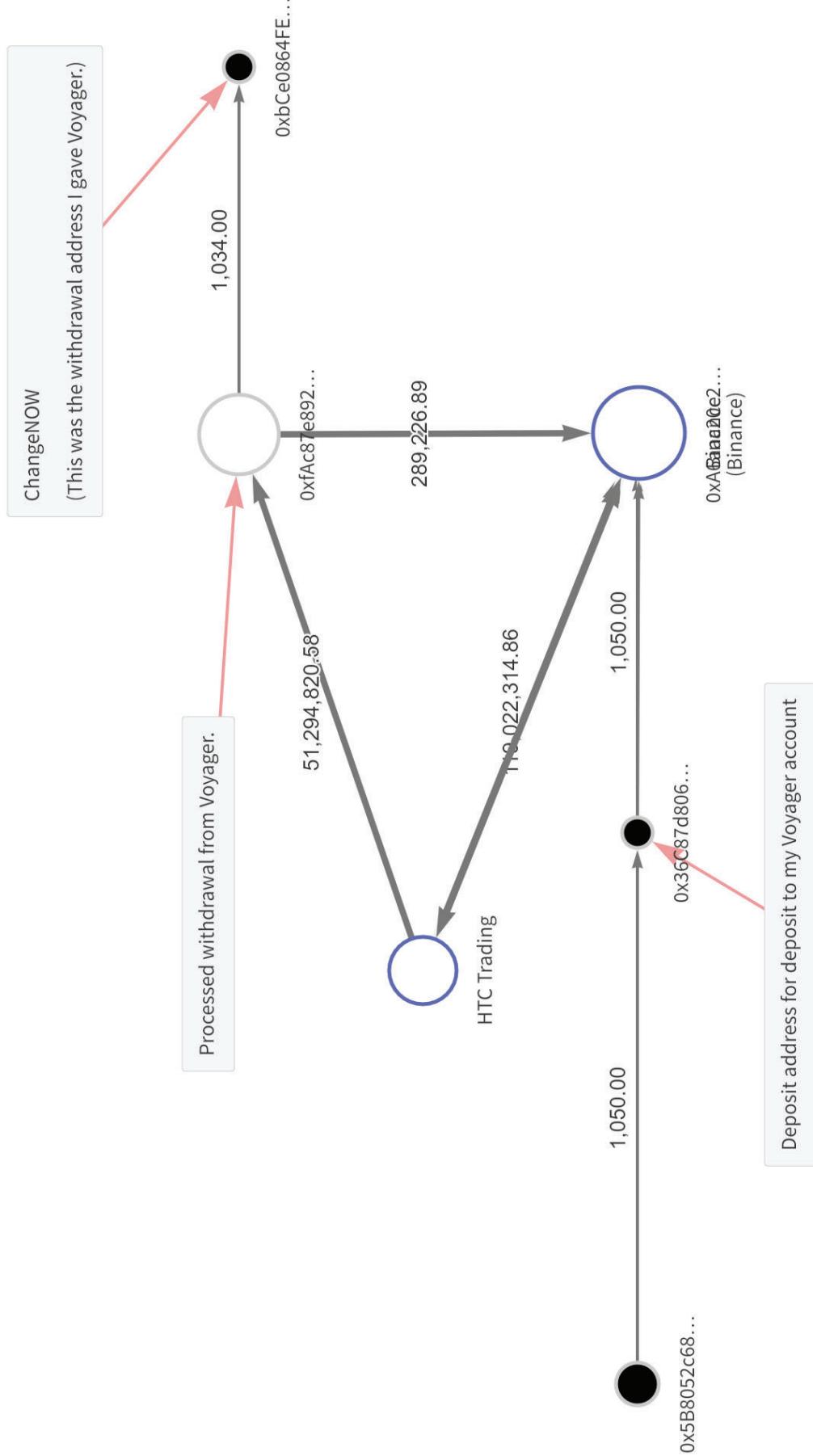


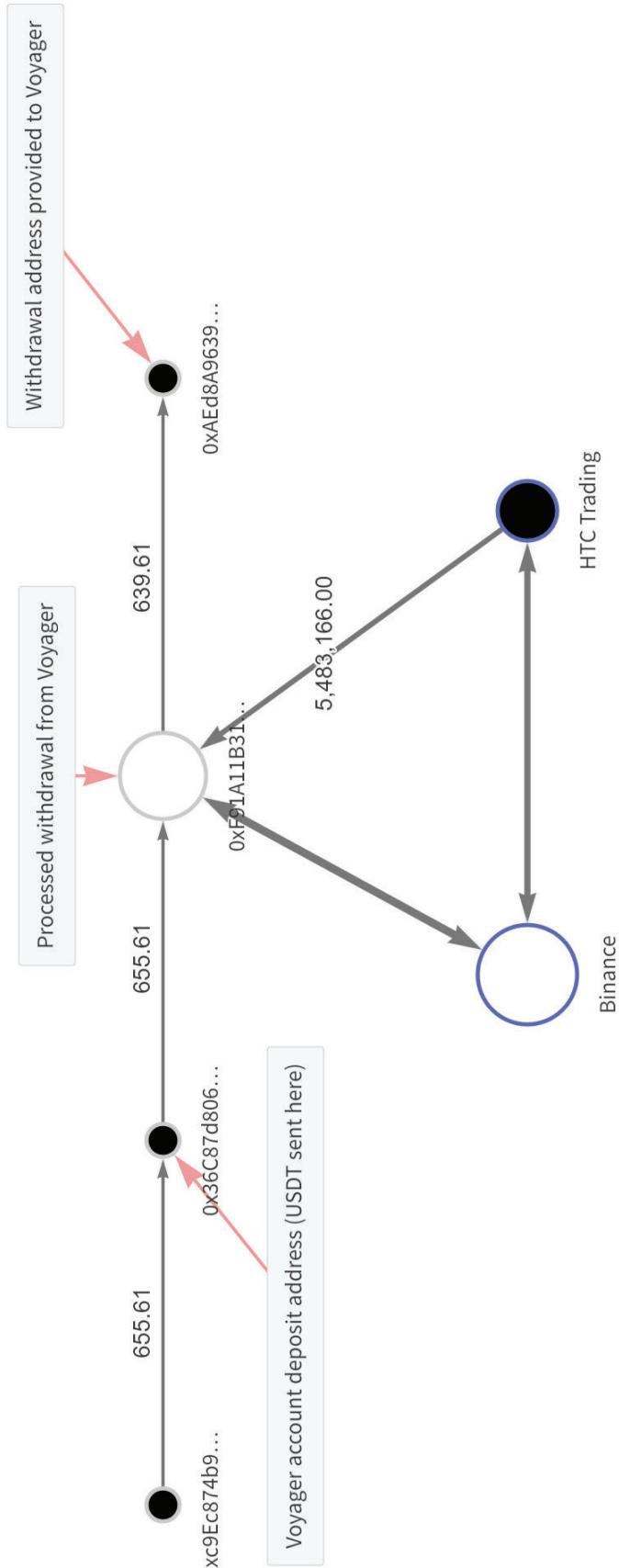


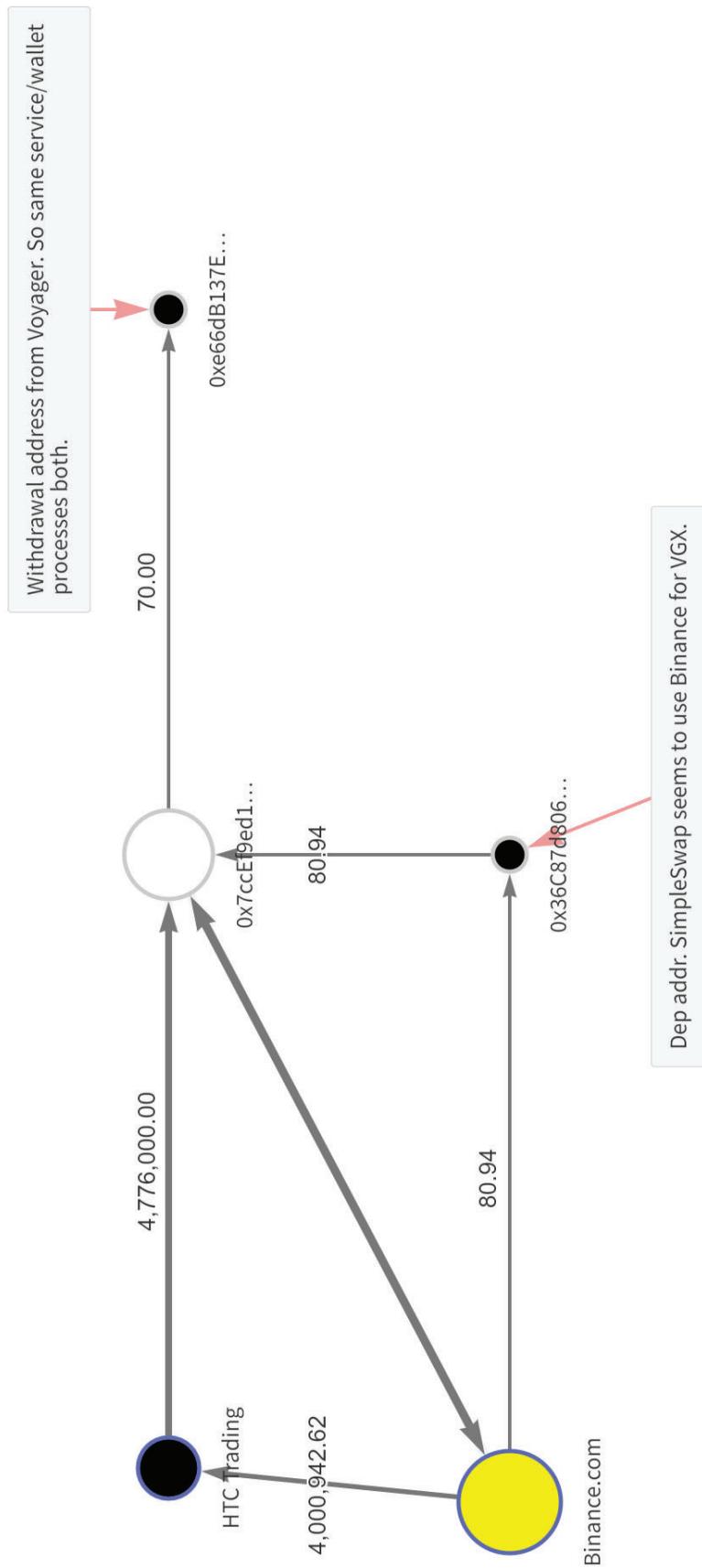












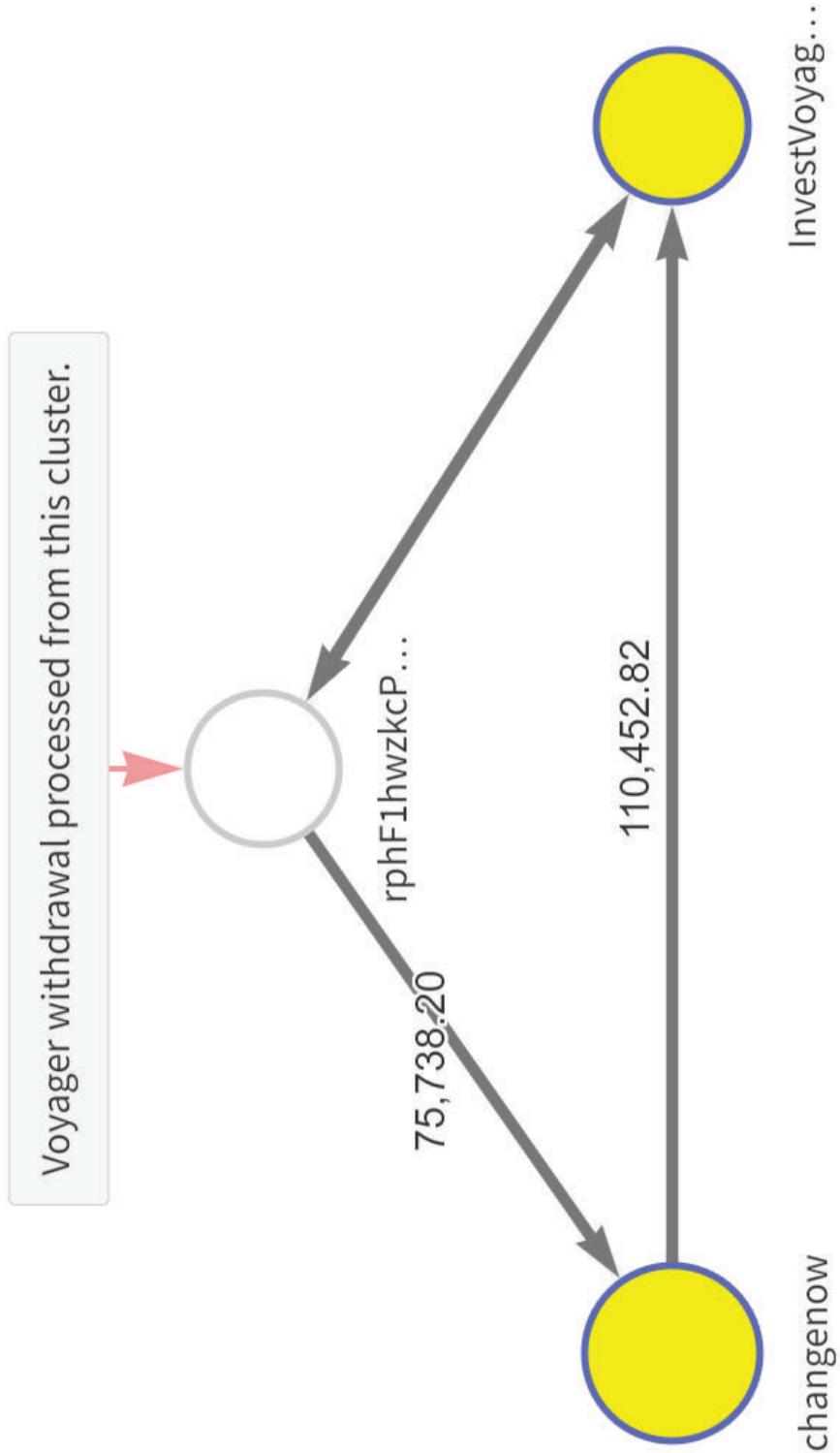


Exhibit E

(CipherBlade Preliminary Expert Report)

Link:

<https://youtu.be/zF5nHhLhpaM>

Exhibit F

(CipherBlade Preliminary Expert Report)

Captured	Cryptocurrency	Amount	Voyager	Coinbase	Binance	FTX	Kraken	Uniswap	Sushiswap	Remarks
PM EST	BTC	\$100	0.002139	0.00214953						
PM EST	BTC	\$10,000	0.00213589	0.002145						
PM EST	BTC	\$1,000	0.021355							0.002147056
PM EST	ETH	\$10,000	3.147620	3.1688357						
PM EST	ETH	\$5,000	1.5751							1.585
PM EST	ETH	\$20,000	6.29402							6.339
PM EST	DOGE	\$500	1541.8	1567.7						
PM EST	DOGE	\$50,000	154228							158121
PM EST	DOGE	\$100,000	307503							315410
PM EST	DOGE	\$25,000	77065	77830						
PM EST	ADA	\$1,000	420.2							423.4
PM EST	LINK	\$9,001	331.04							332.69
PM EST	LINK	\$500,000	18422.99	18493.53						
PM EST	LINK	\$123,456	4569.06							4561.92
										Utilized USDC for the Binance pair.
										Utilized USDC for the Binance pair.
										Utilized USDC for the Binance pair.
										Utilized USDC for the Uniswap pair.
										Utilized USDC for the Uniswap pair.